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CHEMICAL MARKETING July 11, 1986.
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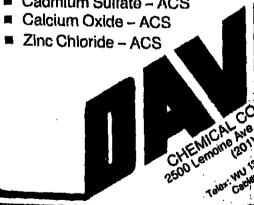
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CHEMICAL MARKETING

PHTHALIC ANHYDRIDE: Price Increde have been a success

SODIUM SULFATE: Demand and ca their downward course PARABENS: Prices are higher b better, producers say CARBON BLACK: OIL'S DEClina I One cent cut .

ANTERVASE ENVIRONMENTAL TREITANGE WEINT

AND COUNT ON THE PERSON

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INSIDE CMR

BOOTS TO US: Baxter Travenol's sale of almost all of its pharmaceutical business to Boots, providing a long-sought entree to the market for the UKPage 3

BASF REBUFF: Regional labor board rules that locked out OCAW workers did not engage in unfair labor practices at Geismar. BASF says it will appeal to

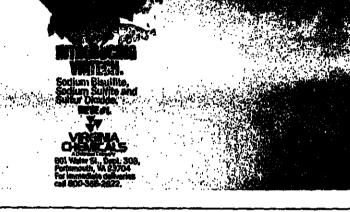
PHILLIPS AHEAD: The company says it has essentially reached its announced goal of selling off \$2 billion in assets as part of its debt reduction pro-'gram......Page 9

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PESTICIDE REFORM: The Senate Agricultural Committee expects to complete work on egislation overhauling the nation's basic pesticide law this Page 7

FERTILIZER USE: Fertilizer disappearance was 10 percent lower overall compared to last year in latest monthly comparison prepared by industry orga-nization. Page 48

FEXTILE VETO: Fiber industry spokesmen vow to fight on in Congress following the vote to sustain veto of measure to proports..... Page 20



Punctifious Ethyl Alcohol Glacial Acetic Acid

, Petrothene Polyethylene 323 VAM Vinyl Acetate

Waste Sites Debated

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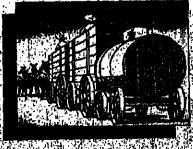


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Waste Facility Sites Debated

A hazardous waste treatment facility being built near the Ohio River in Henderson, Ky., by a Union Carbide subsidiary poses an "unreasonable risk" to public health and safety, two citizens' groups charged last week at a congressional hearing.

But Edward V. Lower, chief executive officer of Unison Transformer Services, Inc., defended his company's technology for destroying polychlorinated hiphenyls (PCBs) as "an environmentally sound and cost-effective means."

The exchange came as the House Energy and Commerce subcommittee on commerce, transportation and tourism held a hearing to examine the status of regulations being developed by Environmental Protection Agency to govern the location of hazardous waste treatment, storage and disposal facilities.

Rep. James J. Florio, (D-N.J.), the subcommittee

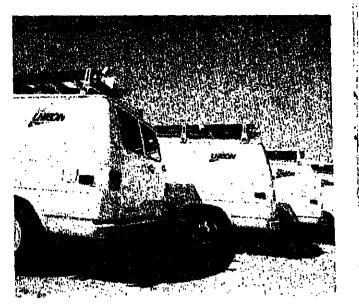
chairman, said the regulations will fill "a gaping loophole" in the current law that allows landfills to be located in close proximity to drinking-water supplies and densely populated areas.

"Current regulations only call on EPA to examine the potential for such catastrophic events as floods and earthquakes, even if a landfill operates only a few feet above an underground aquifer," Rep. Florio explained.

Marcia E. Williams, director of EPA's office of solid waste, said the agency will propose the regulations in September 1977 and expects to finalize them a year later. Congress ordered EPA to issue the regulations

Continued on Page 23

UNISON SERVICES TRUCKS: Lined up and ready to go to service PCB-laden transformers. Siting of Unison plant was focus of



BASF Charge Against Union Dismissed by Labor Board

BASF Corporation says it will appeal a ruling by the National Labor Relations Board that the Oil, Chemical & Atomic Workers International Union has not engaged in unfair labor practices in connection with a two-year lockout of OCAW workers at BASF's Geismar, La.,

In a complaint filed this Spring with NLRB's regional office in New Orleans, La., BASF charged, among other things, that OCAW obtained and publicly disclosed confidential and proprietary BASF financial data as part of a "corporate campaign" against the company (CMR 6/23/86, pg. 14).

"We reviewed the evidence and decided that just wasn't correct," Frank Malone, regional director of the NLRB in New Orleans,

OCAW has raised questions about the safety of the Geismar plant, saying the com-pany is "inviting another Bhopal disaster" there by using temporary personnel (CMR) 3/10/86, pg. 3). BASF has vigorously denied the allegations, complaining that the union is attempting to win a labor dispute "through threats, propaganda, contrived media events

In dismissing all charges brought against the union, Mr. Malone said the "evidence was insufficient" to support BASF's allegations hat OCAW's representatives was bargaining

He said "both sides have bargained hard," but that several issues remain unresolved, in

what he described as a "classic conflict" between the company and the union.

Those issues involve wages, health-care benefits, subcontracting and seniority.

Union and company representatives met briefly last Tuesday morning for the first time since early June. Acording to Les Story, manager of the Geismar Works and chief negotiator for BASF, the union was seeking the company's reaction to a counter offer According to Mr. Story, the company "ex-

pected dismissal" of its charges by the regional NLRB office, saying this is the "first instance of union harassment" on such a large scale. The company's appeal will be filed with the NLRB's general counsel in Washington, D.C. OCAW said dismissal of the BASF charges

against the union "underscores OCAW's allegations that the real perpetrators of violations of workers' rights is BASF." The union has filed unfair labor practice charges of its own against BASF, which are still under investigation

The OCAW workers, numbering 370 at the Geismar plant, were locked out on June 15, 1984, after rejecting the company's "final offer" for a new contract. BASF proposed a three-year contract, with an eight-month wage freeze in the first year of the contract, The company justified the wage freeze, saying a survey found the Geismar workers to be the highest paid in the Gulf Coast region.

The union sought a one-year contract with

Chemical Number 6 Chemical Number 6 Narketing Reporter August 11, 1986

Boots Expands in US Via Baxter Travenol

stage for its virtual withdrawal from the pharmaceutical business last week when t agreed to sell its Flint prescription drug unit to Boots Company of the UK for as much as \$600 million.

In July, Baxter Travenol agreed to sell its American Critical Care unit, which makes critical care and cardiovascular drugs, to E.I. du Pont de Nemours & Co, for \$425 million in cash. The company completed the sale of its American Medical Optics unit in May to SmithKline Beckman Corporation for \$165

Proceeds from the sales of these businesses will be used mainly to pare the \$2 billion in debt Baxter Travenol accumulated Hospital Supply Corporation last year.

Baxter Travenol will now focus on medical and surgical manufacturing and distribution. information systems for the medical community, and home care clinics and labs, leaving a generic drug distribution operation as its only link to the pharmaceutical business:

Under the agreement with Boots, the UK firm has agreed to pay \$555 million up front for Flint, and as much as \$45 million more, based on the future sales performance of Flint's chymopapain products, "Discase" and "Chymodiactin"

The two products "are not doing very well at the moment," but Boots hopes to turn them around, according to Bernard Theobald, corporate development director of Boots. However, "we weren't prepared to pay on the basis of 'it might happen'.' he explains.

Boots is financing the acquisition through

the issuance of around 180 million new shares of stock valued at approximately \$3.03 per share. The entire issue was placed last Wednesday with institutional investors, atthough some or all of the new shares could be recalled and sold to Boots shareholders. Boots is paying a steep premium for Flint; which recorded pre-tax profits of \$33.1 mil-

which recorded pre-tax profits of \$33.1 million last year on sales of \$53.7 million, Boots.

SURGICAL GLOVES: With sale of pharmacoluli acknowledges. The company was willing to call operation to Boots. Baxter Travend has do so, because it has been looking to buy a US shifted almost completely to hospital products and savicas; retaining only a generic confident there are "very few occasions when some specially designed for surgeons."

Baxter Travenol Laboratories set the thing becomes available," says Mr.

Wall Street analysts say the prevailing rate for drug businesses these days is 17 times pre-tax earnings, which is about what Boots is paying.

Although Boots has an existing US subsidiary, Boots Pharmaceuticals Inc. in Shreveport, La., the firm's participation in the US market is mostly through licensing arrangements with American firms.

Upjohn, for example, markets Boots' 'Motrin" drug here for the treatment of

Boots will immediately combine the sales forces of Flint and its US subsidiary and eventually merge the two entirely into one



Rhone-Poulenc, Rohm & Haas Collide in Herbicide Market

Rhone-Poulenc says that two addi- 32,216, were granted on July 22 and July 29 tional patents it obtained for its post- over the objections of Rohm and Haas and emergent herbicide "Tackle" late in Ju- cover the manufacture, use and sale of both ly will strengthen its position in the patent litigation with Rohm and Haas which has been pending in the Delaware Federal District Court since September

The litigation concerns acifluorfen, the principal ingredient in "Tackle" and in Rohm and Haas' herbicide "Blazer." The litigation was originated by Rohm and Haas, which sued Mobil Agricultural, the original developer of "Tackle,"

Mobil countersued, but never obtained a registration for "Tackle." When Rhone-Poulenc bought Mobil's agricultural chemical business in 1981, it inherited the litigation as vell as "Tackle."

Now, Rhone-Poulenc says, Environmental Protection Agency has granted a registration for the herbicide. Although it was late in the season to initiate a full marketing campaign (in mid-April), the company claims that the market introduction of its version of the herbicide "was a resounding success".

The two new patents, Re. 32,215 and Re. patent in 1975.

"Tackle" and "Blazer", according to Rhone-

"These two patents, together with Rhoneenc's US patent 3,878,347, which was granted September 7, 1976, cover every pound of "Blazer" ever manufactured and sold by Rohm and Haas in the United States." Rhone Poulenc says.

Both of the two companies are now actively pursuing the previously dormant litigation, which their attorneys last week described as being in the pretrial stage.

A spokeswoman for Rohm and Haas said that company would restrict its comments on Rhone-Poulenc's claims because of the litigation, but that it doesn't agree with them. As for the market, she said, "We feel we have developed a very strong position since 1980" and that is unlikely to be much affectedby the introduction of "Tackle," at least in the near

Acifluorien is in the phenyl ether class of herbicide. Rohm and Heas obtained its

Pfau Teamwork

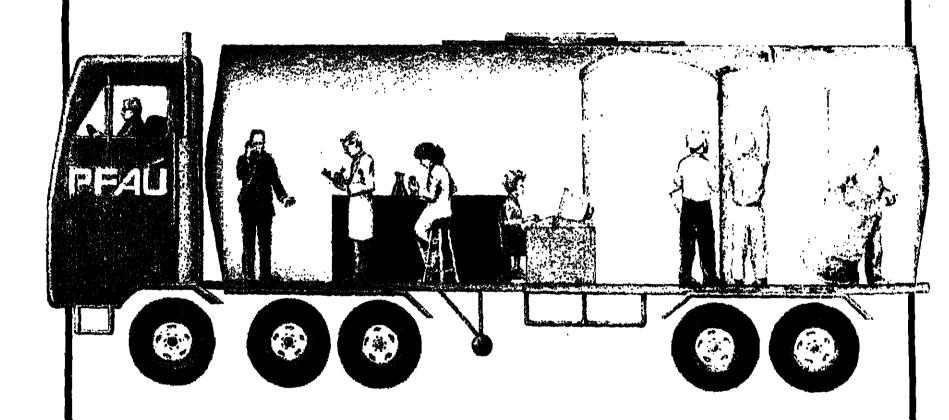
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Hazardous Waste Treatment

and unimpaired performance," said Sen. John Danforth, R-Mo., chairman of the Senate Commerce Committee, as the bill cleared the panel.

The House has not begun work on the measure to reauthorize the Hazardous Materials Transportation Act whose main critic is the Reagan Administration. It says rules being formulated in the Trans-portation Department eventually should make the measure unnecessary.

There was no dissent against the Dan-forth-bill, which would authorize DOT to cut Federal highway (unds by 5 percent for states not in compliance with the stan-

dards by Sept. 1, 1990.

An additional 5 percent annual cut would be approved for states that re-

ers who transport hazardous materials as well as national licensing standards were approved last week by a Senate panel.

"The public is entitled to professional and will restrict the states by March 1, 1988. They would include written and behind-the-wheel tests for all commercial drivers and special controlled." cial provisions for drivers of tank trucks and other vehicles containing hazardous

> Hazardous materials drivers would be required to pass tests demonstrating their knowledge of hazardous materials regulations, properties and handling of hazardous materials, and emergency response procedures.

> They would also have to demonstrate their ability to handle the vehicle and operate safety equipment

> A study released by the Office of Technology last month said more than 60 per-cent of truck accidents and spills involv-ing hazardous materials are due to human error either by drivers or other workers such as loaders.

Sunflower Oleic Raised By Lubrizol Corporation

Later this month, a division of Lubri- expects to process 40 million pounds of the zol Corporation will begin harvesting a crude oil, according to Bruce H. Grasser, new strain of sunflower that has a 400 vice-president of Lubrizol Enterprises. new strain of sunflower that has a 400 percent higher concentration of oleic acid in the crude sunflower oil than conventional crude oil. The company is also working to develop a new form of rapeseed with a sharply higher concentration of erucic acid than current forms of the

The company's aim is to market 80 percent oleic acid crude sunflower oil as a specialty product to the food and chemical industry. The company says it sells the oil as a "premium vegetable oil" in a wide range of edible products ranging from frying oil for potato chips to infant formula.

As an industrial chemical, Lubrizol says the high oleic acid is marketed as a high performance, specialty product in a wide range of applications including detergents, plasticizers, and lubricants.

The new plant is the product of a broad range of research and development by Lubrizol scientists that combined mutagenesis, re-combinant DNA technology, and pollen cross breeding techniques. About 90,000 acres of the seed were planted this year and Lubrizol

The engineered sunflower plant program is run by a unit of Lubrizol called SVO Enterprises Corporation, Columbus, Ohio. Research on the new strain of sunflower was begun by Sigco, a Breckenridge, Minn.-based sunflower seed company which Lubrizol acquired in 1982.

SVO Enterprises, formed in 1984, harvested its first high oleic sunflower crop last year, and processed 6.5 million pounds of crude oll for sale to the food industry.

This year, in addition to marketing the crude oil, Mr. Grasser says the company will offer two high-stability, edible specialty oils in the fourth quarter, and perhaps a chemical derivative of oleic acid. Mr. Grasser says the highly refined and purified oils coming onto the market will prevent foods from turning rancid without affecting the color or taste of

While developing and marketing a pre-mium oil for the food market, Mr. Grasser says the company's making a strong push for oil into the chemical business, where they

Chemical Firms Join Coalition on Rail Fees

A coalition of more than 2,000 large and small shippers dependent upon the railroad industry for transportation urged the Interstate Commerce Commission last week to revise the current standards employed to determine the financial health of the railroad industry.

"Changes in revenue adequacy determinations are long overdue and will make a significant contribution to providing a more realistic picture of railroad financial condition," the shippers said in statements filed with ICC. The Fertilizer Institute and Chemical participants in the filing.

ICC is currently reviewing its system for determing the revenue adequacy of individ-ual railroads. The present method is based on a return-on-investment/cost of capital standard, which has been the subject of much controversy.

Under the system, ICC has found that no Class I carriers were revenue adequate in adequacy, and is far superior to replacement 1984, even though the industry appears to be in good health as demonstrated by recent investment moves, such as Norfolk Southern's bid for Conrail.

health of a railroad — or its revenue ade- for determining capital structure mix

quacy — is a factor in determining a captive shipper's transportation rates.

Until a rallroad reaches revenue adequacy, ICC grants railroads great ratemaking freedom even where no practical competitive transportation alternative exists.

Shippers have long complained, and the ICC has recently acknowledged, that current standards for railroad revenue adequacy do not accurately reflect the financial condition of the railroad industry.

The coaliton urged the ICC to support revision to assure that the revenue adequacy analysis focuses exclusively on rail-related activities of each carrier. Currently, inclusion of non-railrelated information, such as income tax expenses for non-rail affiliates, distorts the ICC's analysis, the shippers said.

The group also recommended the continued use of original cost accounting. Dr. Alfred E. Kahn, an economist who joined in the filing, said the original cost standard is a "fully sufficient and valid test of revenue cost on grounds of accuracy, verifiability, and administrative practicality."

The coalition also urged ICC to support treatment of deferred taxes as a zero cost An accurate determination of the railroads' financial health is of critical importance to shippers because the financial and the actual book values of debt and equity.

Pesticide Reform: Gain This Week?

The Senante Agriculture Committee expects to complete work on legislation overhauling the nation's basic pesticide law this week before Congress adjourns for its Summer recess, but the panel must still deal with two controversial issues — patent term restoration and data compensation.

The committee has been considering a bill approved by the House Agriculture Committee June 18 to reform and reauthorize the Federal Insecticide, Fungicide & Rodenti-

The Senate panel, chaired by Sen. Jesse Helms (R-N.C.), has agreed to most of the major provisions of the House bill, which primarily seeks to speed up the Environmental Protection Agency's review, or "reregistration," of approximately 600 pesticide active ingredients that were approved for use before November 1984.

The review is intended to determine whether these building block ingredients meet current health and safety testing requirments, and to assess the safety of continued registration of the chemicals.

However, the senators agreed last week to amend the House bill to include a comprehensive program for protecting groundwater against pesticide contaminatio

Sponsored by Sen. Paula Hawkins (R-Fla.) the amendment would require EPA to establish groundwater residue guidance levels for pesticides that have the potential of leaching

at three sampling points or in a drinking well that serves over 10,000 people.

The provisions, which have the support of EPA, the chemical industry and environmental organizations, are expected to provide a



inc., who has been named chairman of the Beecham Group, the \$4 billion pharmaceuticals

Hercules, Reichhold Mull **Fall Oil Joint Venture Firm**

Hercules Incorporated and Reichhold Chemicals, Inc. have begun exploratory discussions that could lead to the formation of a joint venture for the production of tall oil and wood rosin, fatty acids and byproducts from crude tall oil and wood

The talks are directed toward determining the potential benefits of combining the two companies' manufacturing facilities for these primary products, RCI says.

The result would be an independent jointventure company which would provide wood and tall oil rosin and fatty acid raw materials for the resin manufacturing needs of both Hercules and Reichhold.

Both companies currently have operating tall oil fractionating facilities for the manu-facture of rosin and fatty acids. In addition, Hercules has an active wood rosin extraction plant in Brunswick, Ga.

resins. The resins businesses would not be included in the venture, the companies say,

The purpose of the proposed joint venture is to even out the supply and demand balance, as well as to have a ready source of raw material, a Reichhold spokesman says. By combining resources, the companies can protect against a shortfall of one of the products on one side against a shortfall of another material on the other side, the spokesman

Hercules and Reichhold are the only two independent producers of the materials involved. Competing producers are vertically integrated paper companies, most notably Georgia-Pacific, Union Camp, and Westvaco. The talks are considered a signal to the indus-try that Hercules and Reichhold are determined to stay in the business.

Industry analysts suggest the proposed joint ventures is a cost-saving measure Continued on Page 11

DuPont Philips Venture Opens US Center for Optical Disks

The PDO facility, located at Foulkstone Plaza near Wilmington, Del., Will be responsible for marketing and technical applications development of optical discs for the information storage and retrieval markets

PDO is the result of a joint venture between the Du Pont Company and N.V. Philips of the Netherlands. Both companies have

Philips & Du Pont Optical Company world's largest CD-audio manufacturing far Nieuwegein, the Netherlands, has an nounced the opening of a new marketing and technical center within the United the Netherlands and Wilmington that are the Netherlands and Wilmington that are producing write-once discs of various sizes and capacities

> "PDO also has in place \$150 million in initial capitalization, and a further \$400 million in facilities investment will be added by

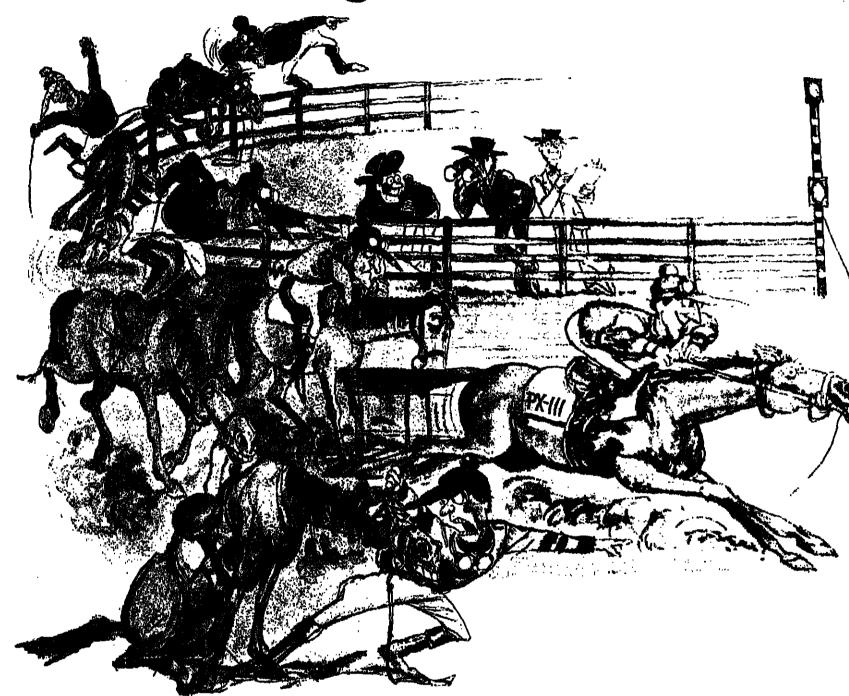
Mr. Spengler noted that PDO's annual research and development program is anticle pated to be \$60 million by 1990 and that by then the venture will employ approximately 3,500 people at about 10 facilities worldwide.

of the Netherlands Both companies have combined their existing compact disc (CD) and high-density information storage disc operations, with the goal of becoming the world's pre-eminent supplier of optical discs.

According to Robert Spengler, PDO's director of marketing the company is expected to generate annual sales of about \$1 billion in the early 1990's.

He said, "PDO has unmatched technological machine the rend of this year." We plan to be delivering audit discs to stores in time for the end of this year. This major this year and contains the company include the facturing facility is Jocated in Kings Mountain The initial assets of the company include the facturing facility is Jocated in Kings Mountain No. 10 pages 11 pages 11 pages 11 pages 12 pages 11 pages 12 pages 13 pages 13 pages 13 pages 14 pages 14

PX-111...for top performance right down to the wire.



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News Capsule

Monsanto Sells Division

Monsanto Chemical Company, an operating unit of Monsanto Company, has completed the sale of the Equipment Division of Radiation Dynamics Inc., Melville, N.Y., to Sumitomo Heavy Industries Ltd. of Tokyo for an undisclosed amount. Radiation Dynamics manufacturers high energy electron beam accelerators for the tire, medical, wire and cable, electric utilities and food industries. Monsanto said the sale is designed to better position the ompany to attain its strategic objectives

Grow Group Buys Assets

Grow Group Inc. has completed the acquistion of the business and certain assets of the Chemical Packaging Division of Georgia-Pacific Corporation for \$38 milion in cash. Included in the purchase is the 'Aqua Chem" pool chemical product line and the division's private label and brand name household cleaning products. The purchase price is subject to a post-acquisition audit. Grow Group produces specialty chemical coatings, private label household products and OTC pharmaceuticals, health and beauty aids.

Cyanamid VP Appointed

W. Perry Brown, corporate vice-president and director of American Cyanamid Company's personnel division, has been appointed to the White House advisory committee on federal pay, which was established in 1970 to advise the President on salary issues for Federal employees. Mr. Brown's term expires in January 1992. Prior to joining Cyanamid in 1978, Mr. Brown held executive positions with Merck & Co. and Hudson Pulp & Paper

BP Signs Accord

BP Chemicals Americas Inc. and Sterling Chemicals Inc. have completed an agreement giving BP exclusive rights to roduce from the acetic acid plant at Stering's Texas City, Tex., site. "BP Chemicals already is the largest acetic acid producer in Europe and this agreement enables BP Chemicals Americas to have a significant presence in the US market as well," the company says. An agreement in principle had been announced in June.

Rohm and Haas Buys

Plaskon Electronic Materials Ltd., a subsidiary of Rohm & Haas Company, has acquired Morton Thiokol's Singapore plant and the rights to the epoxy encapsulants which are manufactured there. The products are used by the semiconductor industry for integrated circuits, relays, resistors and capacitors. Terms of the acquisition were not disclosed.

Alcoa Sells Unit

Alcoa has sold Buckeye Molding Company, a plastic packaging subsidiary in New Vlenna, Ohio, to Packaging Resources Inc. of Mt. Carmel, Pa. Packaging esources is a wholly-owned subsidiary of Peck-Lynn Group Ltd., Chlcago. Buckeye \$30 million, manufactures plastic food packaging products. Packaging Resources, with annual sales of more than \$25 million, manufactures and sells packaging materials for the food and beverage

Dover Enters Market

Dover Chemical Corporation, a whollyowned subsidairy of ICC INdustries Inc. has entered the organophosphite market with the completion of a new 7,500square-foot plant in Dover, Ohio. The plant is capable of producing "volume quantities" of diphenyl isodecyl phosphite, phenyl didecyl phospite and TNPP; used by the plastics, rubber and allied products industries. products industries.



Robert A. McMillan, who has been elected vice-president and treasurer of B.F. Goodrich Com-pany. He was previously director of planning

EPA Okays A Biotech Test At Montana Site

Environmental Protection Agency says a Montana State University scientist can proceed with the small-scale field testing of four strains of a fungus, which has been gentically altered by exposure to ultraviolet irradiation.

Dr. David Sands is proposing to field test altered strains of the fungus Scierotinia sciorotiorum to assess their efficacy as herbicides against the weeds Canada thistle and spotted knapwood.

EPA says the field test will be carried out at a site in the state of Montana over a twoyear period. The test will cover an area that s smaller than one acre.

The agency says that based on the data that it has collected on the fungus, it has deter-mined that the potential risk of small-scale field testing of the altered strains is minimal. Consequently, EPA says it will not requiring an experimental-use permit.

Hoechst Hikes Its Rigid PVC By 50 Percent

American Hoechst Corporation plans to expand its capacity for rigid polyvinyl

chloride film by nearly 50 percent.

The company will install, at its Delaware,
City, Del., plant, a new calender line using new technology developed in cooperation

with Hoechst engineers in Europe.
"The US market for rigid PVC film will continue to grow at rates well in excess of the will enable us to improve our leadership position of producing and marketing rigid PVC film and sheet," says David R. Beresford, vice-president and general manager of the American Hoechst PVC film products busi-

The project is expected to cost more than

Drug Bill Gains

The Senator Labor & Human Resources Committee last week approved legislation to allow the submission of abbreviated new animal drug applications for generic equivalents, and to restore up to five years of the patent terms for pioneer animal drugs to make up for exclusive marketing time lost in the Food & Drug Administration approval

Phillips Petroleum **Reaches Debt Goal**

off \$2 billion in assets as part of its debt reduction program begun early last

The company says the recent sale of carbon black operations in US and Europe, cou-pled with the closing of a sales contract with Shell Oil Company covering several onshore and offshore oil exploration and production properties, has pushed the total from the asset sales program to over \$1.95 billion. Negotiations for the sale of some other "minor assets continues, the company says.

The latest \$250 million in assets sales completed by Phillips include a 135 millionpound-per-year carbon black plant located in Orange, Tex. which was sold in June to J.M.

At about the same time, Phillips sold a carbon black company in Hannover, West Germany to Columbian International Chemicals Corporation. The oil company also sold its minority interest in Negromex, a com-pany that makes rubber, carbon black and

On August 1, Phillips sold its Huntington Beach, Callf. oil field to Shell. The field, 27 niles south of Los Angeles totalled almost 6,000 acres of offshore and onshore lease sites and was producing, about 12,600 net barrels of oil daily.

Phillips Petroleum Company says it has essentially reached its goal of selling site just north of Huntington Beach, and five undeveloped offshore blocks called the Lion Rock Unit, located north of Point Arguello. Shell also purchased several smaller tracts on shore and offshore of California.

By the end of 1986, C.J. Cilas, Phillips' chairman and chief executive officer says the company's debt will fall below \$6 billion. down from the \$8.6 billion peak reached in early 1985. A large portion of the debt was accrued in fending off takeover attempts by T. Boone Pickens and Carl Ichan.

Phillips sold or contracted to sell \$1.4 billion in assets through year-end 1985. Two of the larger properties sold last year were Geysors Geothermal Company, which went to Freeport McMoran last Fall for \$215 mil-lion, and Netherlands Oil & Gas properties, which was sold last September to Newmont Oil Company for \$165 million.

In 1986, Phillips turned its attention toward its chemical properties, particularly its large stake in the ailing carbon black

industry.
In February, Phillips sold its Midwest Fer-tilizer Company unit and American Fertil-izer & Chemical Company unit to CPEX, Inc. and its 49.8 percent stake in a Belgium petromical plant to Petrochim SA.

Then the company began selling its carbon black units. In April, deals were closed to sell the 275-million pound per year carbon black unit in Borger, Tex. to Sid Richardson Carbon

NL's 'Pill' Overturned

Federal Appeals Court in New York last week agreed to review a ruling, handed down earlier in the week in Federal Court in the same city, that NL Industries, Inc.'s "poison pill" anti-merger defense is illegal.

NL is defending itself against a hostile takeover bid by a group of investors led by Harold Simmons, of Dallas, Tex. Through their vehicle, NL Acquisition Corporation, the investors are in the midst of a tender offer for NL's shares.

The Second US Court of Appeals will hear arguments on August 28 on NL's anti-takeover measure, which entitles stockholders to purchase shares at half-price after any unapproved acquisition of NL. Meanwhile, the acquisition group has been enjoined from purchasing any additional NL shares. The group now claims

ownership of 28 percent of NL's 60 million outstanding common shares.

Judge Vincent L. Broderick of Federal Court had struck down the anti-takeover measure, terming it an "illegal device" because it would effectively bar anyone from taking over the company. NL's lawyers had noted that more than 130 companies, including Allied-Signal Inc., J. C. Penney Company and Time Incorporated have adopted such anti-takeover

NL's lawyers disputed Judge Broderick's contention that NL's "poison pill" is more restrictive and discriminatory than

NL said that it intends to continue vig-orously to seek to uphold its rights plan "and the protection it affords NL's shareholders against the inadequate tender of-fer by the Simmons Group."

OPEC Oil Move Prompts Shift In Policy of US on Reserve

the Strategic Petroleum Reserve at a perbarrel. 750-million-barrel level as "the best deoil price hikes and supply interruptions; the White House said last week.

The decision was announced shortly after OPEC agreed on sharp production cuts for two months in an attempt to restore slump

President Reagan made the decision after a domestic policy council meeting, according to spokesman Larry Speakes.

"Reaffirmation of our goal of a 750-mil-Heatirmation of our goal of a 750-million-barrel Strategic Petroleum Reserve demonstrates the President's continued leadership and commitment to our allies that holding strategic stocks is the best defense against the effects of rapid price escalation or supply interruptions," Mr. Speakes said.

The reserve was created in the Carter Administration to maintain ab energonary and

ministration to maintain an emergency sup-ply of oil in case of price and diplomatic instability among Middle East oil-producing

President Reagan has decided to fill will eventually settle somewhere \$15 and \$20

Opponents have cited budgetary restraint: fense" against the impact of rapid crude as a reason for not filling the reserve, which oil price hikes and supply interruptions now contains about 503 million barrels, most of it purchased from Mexico.

"The President committed the Administration to continue filling the reserve through fiscál year 1987, 'Mr. Speakes said.''He gave Mr. Herrington the discretion to exceed the current congressionally approved rate. should oil prices make this an economically attractive choice."

He said President Reagan also urged other if-consuming nations to take similar action, "stressing that strategic stockplies are the best defense against world oil supply disrup-

The Energy Department has been filling the reserve at a rate of 50,000 barrels per day under congressional approval that lasts until

ply of oil in case of price and diplomatic instability among Middle East oil-producing nent of "an aggressive fill rate"... as aggressive as we can get with these prices. He said he would like to see the government add they may rise as the result of OPEC's decided by the light budget would likely all out. John Herrington said he believes oil prices that the tight budget would likely all out.



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OILS, FATS & WAXES

Hercules, Reichhold Mull

aimed at consolidating the newer, able to reach a final decision in the amount of higher-quality facilities of both companies, while eliminating the ones that may need expensive repairs.

Rather than run several small capacity plants of varying degrees of efficiency, the two companies would combine their best facilities to form one or two "world class" capacity operations, and abandon older facilities, the sources say.

This is thought unlikely, right now, however, as the high level of demand for the rosins and fatty acids would make it unwise for the companies to shut down production facilities at either company.

Hercules plants considered potential candidates for any joint venture that may arise from the talks include tall oil fractionating plants in Portland, Ore.; Franklin, Va.; Savannah, Ga.; and Burlington, Ontario,

These plants all produce tall oil fatty acids and rosins. In addition, the wood rosin extraction plants in Brunswick, Ga., and Hattiesburg, Miss. would be considered for inclusion. The wood stumps operation in Hattiesburg. Miss. was shut down three years ago and is currently on standby status.

HERCULES' FACILITIES

Reichhold declines comment on which of its plants would be potentially considered for inclusion in a joint venture, saying that it is too early to speculate on the matter. Reichhold has tall oil fractionating facilities in Bay Minette, Ala. and in Oakdale, La.

The tall oil fractionating capacity of all of the plants owned by Hercules totals 177,000 tons per year. This includes all of the plants in the US, as well as the franctionating facility in Burlington, Ontario, Canada.

For Reichhold, the total US capacity is 100,000 tons per year. None of the individual plants owned by either company has a capacty exceeding 65,000 tons per year. Plants which operate at capacities closer to 120,000 tons per year are considered "world class." according to industry sources.

CARNAUBA — The pricing on carnauba wax has remained steady and unchanged for several weeks now. The market has been described as typically quiet for the Summer months, although one dealer reports that he is doing better now than he was last year at

Some traders are expecting higher prices from Brazil this year. Brazilian producers are said to be considering price changes, and may come to a decision this month, a source says. It is pointed out, however, that the Brazilians have been considering a change for some time, and have previously been un-

FRIDAY SPOT PRICES MARKET CLOSE AUGUST 8, 1986

CRUDE VEGETABLE OILS		_
Coconut oil, NY	.13%	
Corn oil, Pacific	NA	
Cottonseed oil, Valley	.16	
Linseed oil, Minneapolis	.29	٠.
Peanut oil. Southeant (restricted)	.31	
Sovhern oil Decetus Ib	4 414	

REFD. VEGETABLE OILS
Coconit oil, t.w., NY
Com, jumbo tenks
Cottonseed off, jumbo tenks, NY
Peanut oil, jumbo tenks, NY
Soybean salad oil, NY

CILMEALS

FATS & GREASES

rease, white, choice, tanks, divid., NY...; ib. rease, yellow maximum 10%, ffé tanks... ib. rod, icose, bujk ambr, divid., Chicago... ib... illow, inedible, farcy, tanks, divid., NY... ib, allow, inedible, bich., tanks, divid., NY... ib,

CORN OIL - The corn oil market recelved a joit last week when a significant amount of buying took place. In what was described as an unusually large amount of trading on the domestic market, prices reached the 18c. per pound mark, sources say. The buying was said to be concentrated among three major consumers

The activity was a surprise because the industry was expecting the corn oil market to follow the general downward trend seen in most of the rest of the olls market. Analysts were unsure if the activity was an indication of tight August supplies or part of an effort to firm up the market.

It is believed that the high pricing cannot

PRICES TRENDLINES

WEEK ENDING AUGUST 8, 1986

CHANGES/UP

Corn oil, Midwest, 14c. per ton Grease, yellow maximum 10%, ffa tanks, 14c. per ib. Peanut oil, Southeast (restricted), 1c. per ib.

CHANGES/DOWN

Conoseed, 41 % bulk, Memphia, 225 per ton Cottonseed oil, Valley, 1c. epr lb. Lard, loose, bulk, tanks, Chicago divd., 1c. per lb. Palm oil, NY, 2c. per lb. Soybean, 44% bulk, Decatur, \$6.80 per ton Soybean oil, Decatur, 8c. per lb. Tallow, inedible, fancy, tanks, divd. NY, 14c. per lb.

OILS, FATS INDEX

The Oils, Fats & Waxes index reflects the prices of 11 representative materials in this sector and the quantity of each

Caucea III 1800.	1
ug. 8, 198679.16	l
ug. 1, 1986 83.30	l
uly 11, 1986 83.56	
ug. 7, 1985 86.46	
	ı

Chemical Prices Start on Page 32

The competition of the oils market makes it unlikely that the price will stay this high, since many applications of the oil are substitutable. One brokerage source expects to see the price fall until it breaches the most recent lows, a little over 16c. per pound.

Prior to the recent heavy buying, buyers had been seen as being kept out of the corn oil market by the relatively low prices of com-peting oils, with little forward buying. The market had been very slow as consumers waited for the new crop to drive prices down. The supply has been described as tight, but sufficient to meet demand. Harvesting has already begun in Texas, with the main harvest expected to begin in middle to late Sep-

LINSEED OIL — The market for this oil has been very steady, and running at normal levels for this time of year. "It's not a very up and down thing," a source says, pointing out that the price has remained unchanged for a

Sources note that the ink business has not been doing as well as had been expected. Ink producers, therefore, are "a little behind" in their linseed oil orders. Many of them, how-ever, are said to be running "roughly close" to last year's level of purchasing, sources

to last year's level of purchasing, sources say.

The current flax crop, concentrated in North and South Dakota, is said to be looking very good in terms of yield. No price decline in linseel oil is expected before early October when harvesting begins.

SOYBEAN OIL — Two recent government-assisted exports have helped to bolster an otherwise sagging soybean oil market. Department of Agriculture issued a \$5 million loan to Halti under a Title III credit saids agreement of Public Law 480 Halti then pur

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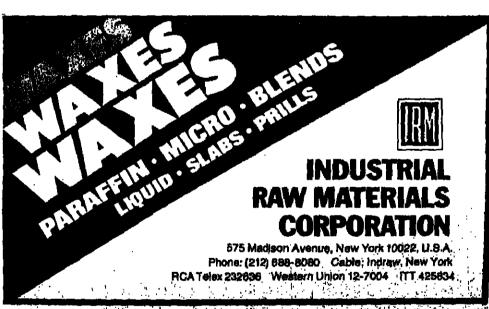
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CHEMICAL MARKET PORTER August 11, 1986

OILS, FATS & WAXES

chased the oil on August 1. The Haitians bought 12,079 metric tons of once refined soybean oil.

Earlier, Pakistan had purchased soy oil under a Title I agreement of PL 480. The Pakistanis bought about half of their \$50 million allotment on July 29, having spent the first half in early July, according to Foreign Agricultural Service. The total amount they purchased was 126,400 tons.

Industry sources have said that if it were not for US government support programs very little foreign trading of US soybean oil would be taking place, due to the non-competitive pricing of the US product. Domestically, soybean oil is suffering from a "burdensome supply," according to a source. Sources see the oil as being under downward pressure, which is expected to continue when the new crop comes in during and after October. It is said that low domestic consumption is combining with heavy meal-driven crush rates to keep stock supplies at high levels.

TUNG OIL — The market for tung oil is described as steady and "rather firm," according to industry sources. The market experiencing its usual Summer slowdown, but usiness is no slower than is normal for this time of year.

Harvesting of the South American crop is taking place now on a small scale, and so far the new crop is said to look good. September and October tend to be a sensitive time for the crop, and a better estimate of the crop's condition can be made after that time, a

Stock supplies are said to be good in the US and throughout the world. It is considered unlikely that the price will soften further than it has, and a firming trend is foreseen.

FDA Okays Dyes But Faces Challenge

Food & Drug Administration gave its final approval Thursday to external uses of two drug and cosmetic dyes, but the decision will be challenged in court.

Although the color additives have been hown to cause cancer in laboratory animals, FDA said it agreed with an industry assessment that the risk to the public "is, indeed.

In a Federal Register notice, the agency ald it was granting a trade association's re-

mest for approval of the dyes, orange no. 17, and red no. 19, for externally applied pharmaceutical products and cosmetics.

Public Citizen Health Research Group said the decision would be contested in court as a violation of the Delaney Clause of the Food, Drug and Cosmetic Act, which prohibits agency approval of any product that is shown to cause cancer in animals.

"No one believes, except for the Reagan Administration and their friends in industry, that there's a safe amount of carcinogens," says Dr. Sidney Wolfe, director of the public interest group.

The additives, which have been under

agency review and the subjects of lawsuits for over 20 years, are being used under a temporary approval in products such as lipstick, nail polish, perfume and shampoo.

But they are barred from foods and drugs that are swallowed because laboratory studies have found that they caused cancer in animals that were fed high doses.

"In relation to other risks regulated by FDA and other Federal agencies, the risk present ... is, indeed, trivial," the agency said in the notice. "The risk of cancer is so low as to be essentially non-existant."

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AROMATIC ORGANICS

Phenol Price Advance Falters, **Despite Strong Housing Mart**

The July 1 industrywide phenol price initiative has met with little success, producers acknowledge. Most observers express disappointment with pricing in the market this year, particularly in light of the strength in the housing indus-

Price hikes, ranging from 2 cents to 4 cents per pound, have achieved some success, according to one producer, and another maintains that "most accounts did accept an in-

In other quarters, however, producers say that for major customers the price increase has failed outright. The higher price "did stick through most of July, but started to fall apart toward the end of the month," says one.

apart toward the end of the month," says one.

Benzene contract pricing started the month of July at 80 cents per gallon, 10 cents per gallon higher than the August 1 level. The 5 cent per gallon August 1 benzene contract adjustment down to 70 cents per gallon was "the straw that broke the camel's back," says

As a result, he says, although 1 cent to 2 cents per pound of the increase remains for some customers, the most significant part of the market "has retreated back to June lev-

The phenol industry has often been described as highly competitive, and one producer asserts that some rivals "can't wait to hold up for long, "has caused people to make of July, there was some order in the market, he says, but more recently the situation has deteriorated.

Producers say that demand for the product has not been as strong as housing start figures would lead them to expect, since most phenol moves into the housing industry.

PHENOLIC RESIN MARKET

The phenolic resin market in particular, which accounts for about 45 percent of phenol consumption, "has not taken off as it should," comments a spokesman at USS Chemicals division of US Diversifled Group.

Phenol producers say it is likely that resin producers are keeping inventory levels low, and that resin and/or plywood imports have been heavy. Imports of phenol actually have declined this year. The USS Chemicals spokesman comments

that, while expectations have not been met, phenol volume should be comparable to last year, with an industrywide operating rate of approximately 85 percent. The market is healthier than the pricing would indicate," he

Georgia Guif's 165-million-pound-peryear plant in Bound Brook, N.J. was reported down for part of July for maintenance. One industry source says that the company was compelled briefly to seek out material in

Producers expect to face more competition in the market in the early Fall when a facility in Canada comes on stream. The 60million-pound-per-year phenol plant near Montreal, formerly owned by Gulf Canada, was idled around the beginning of the year when it was sold to a fuel marketer, sold to the Canadian government for a nominal sum

and then turned over to an engineering firm. Producers had voiced some skepticism sume production in the near future because its adjacent cumene source had been idled,

However, an industry source says that a cumene contract has been signed with a US Gulf Coast producer. It is estimated that US producers currently export about 40 million pounds of phenol to Canada on an annual basis.

BTX - Shell Chemical cut its benzene contract price for August 1 by 5c. per gallon to 70c. per gallon, and the move was soon followed by Exxon Chemical Americas and the rest of the industry, trade sources report. Following this change, however, came the

ide the appear to those the east the i

pricing began to show signs of picking up.
"There is a lot of confusion and volatility in the market," says an industry source. The OPEC accord, although it may not **PRICES TRENDLINES** WEEK ENDING AUGUST 8, 1986

tries. As a result of this, crude oil and gaso-

line values increased, and basic aromatics

CHANGES/DOWN

CHANGES/UP

AROMATICS INDEX

he Aromatic Organics Index reflects the prices of 14 representative materials n this sector and the quantity of each produced in 1985.

August 8, 1986 August 1, 1986 167.84 August 9, 1985 ..

Chemical Prices Start on Page 32

purchasing decisions" in the aromatics market, says one trader, and this is seen as contributing to a firming trend. Spot benzene is quoted between 68c. and 70c. per gallon, spot toluene is quoted between 58c. and 60c. per gallon, and spot xylene is quoted at 75c. per

CUMENE — Pricing fell approximately c. per pound the past month, primarily in response to lower benzene costs, sources say. The current price of 13 % c. per pound is reported holding fairly steady.

Observers say that there has been a noticeable decline in the volume of imported material this year. Bureau of Census figures show that the level of imports during the first half of this year was less than half the volume recorded for the first half of 1985.

Nonetheless, US cumene production in the first quarter of the year fell 14.7 percent from the first quarter of 1985. The dropoff in imports "is not necessarily leading to a pickup in domestic demand," says one sup-

Along with the weakening of the US dollar, the reduction in imports is ascribed to strong European demand which has cut into the amount of European material available for the US market, and also attracted product from South America. "I'm not aware of seeing much (South American cumene) coming to the US this year," a supplier notes. The startup of a large bisphenol-A facility this year in Europe is seen as contributing to the pickup there in cumene demand.

CYCLOHEXANE — E.I. du Pont de Nemours & Co. has shut its 50-million-gallon-per-year Corpus Christi, Tex. plant for an estimated three to six months, trade sources report. The company says the plant will be closed until a pipeline supplying hydrogen from a nearby plant in Victoria, Tex. is completed.

Other producers are skeptical of such a pipeline's feasibility, and one says that the plant "may never come back on." The Victoria hydrogen is produced "on-purpose" and so is considerably more expensive than the byproduct hydrogen taken from the now idled chlorine and chlorinated solvents facilities in Corpus Christi,

It is noted Union Chemical's Beaumo Tex. plant has been down the past couple weeks due to a catalyst problem. A total downtime of three weeks has been estimated, and it is believed that the situation is no more

Continued on Page 18 的时候的现在分词 医抗性性

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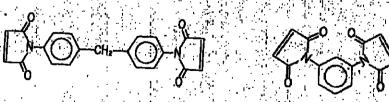


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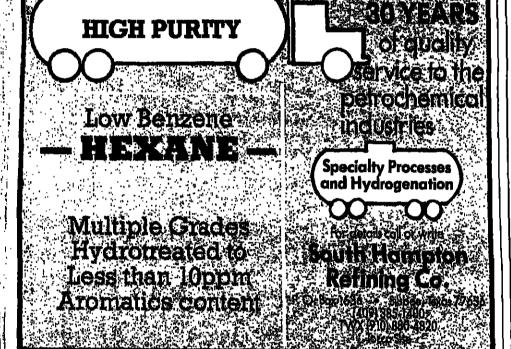
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BISMALEIMIDES





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Kopper of \$3.75 p. chemical recomm should end and a distribution of a distrib

Chemical Finance

Wickes Company Pursuing Owens-Corning

Wickes Companies, a Santa Monica, Calif.-based diversified company, has made an unsolicited offer to purchase Owens-Corning Fiberglas Corporation for \$70 per share, or about \$2.10 billion. Owens-Corning said that it would review the offer but indicated a negative response by saying that a broad restructuring would be among numerous alternatives to be considered. Restructuring is a critical and almost always successful method of defense, if carried far enough.

Agra Acquires Biological Consultants Inc.

Agra Industries, Ltd., Toronto, Canada, has acquired Biological Consultants Inc., of Birmingham, Ala., a consultant in the application of biological organisms to treat municipal, agricultural, industrial and toxic wastes. R.W. Norcross Jr. will continue as president of the company.

Int'l Technology Goes on Pacific Exchange

International Technology Company, of Torrance, Culif., has been listed on the Pacific Stock Exchange in San Francisco under the symbol "ITX." The company provides services for the assessment, mitigation and decontamination of situations involving hazardous substances. Revenues in the fiscal year ended March 31, 1986 were \$207 million, up 34 percent from the previous year.

Rollins Acquires Environmental Control Technology

Rollins Environmental Services Inc., Wilmington, Del., has acquired the business and certain assets of Environmental Control Technology Corporation, Ann Arbor, Mich., for 20,161 shares of Rollins common stock. The acquired company will provide analytical services for Rollins' three hazardous waste incineration facilities.

Waste Management May Offer Equity in Two Units

Waste Management Incorporated, the largest chemical waste handler, is weighing the public offering of up to 20 percent of the equity in its chemical and nuclear waste businesses. The Oak Brook, Ill.-based company said that stockholders may realize greater values if these businesses are conducted in a separate publicly owned entity.

Reichhold's Ester Unit Going to Denka

Reichhold Chemicals Inc., White Plains, N.Y., has signed a letter of intent to sell its US specialty ester business to Denka Chemical Corporation, of Houston, Tex., in a cash transaction. Price was not disclosed. The transaction is expected to be completed within 90 days.

The agreement includes a manufacturing plant in Carteret, N.J.; the "Staflex" and "Barca" tradenames, along with licenses and technology. The product line comprises phathalates and adipates and other plasticizers, which Reichhold itself will continue to market through subsidiaries in Switzerland and Austria.

Greenwell Reinstates BOC, Brent Ratings

Greenwell Montagu Research Company in the UK has reinstated its "buy" recommendation on British Oxygen Company following a long period of weakness in the shares, and is again recommending purchase of the shares of Brent Chemicals Ltd., now that the price has drifted to a level below its instrinsic value. Greenwell is rating shares of Coalite PLC as a "hold" and Coates Brothers is called a "speculative buy." Imperial Chemical Industries PLC also is recommended.

SDS Biotech Completes TechAmerica Offer

SDS Biotech Corporation, a wholly-owned subsidiary of Fermenta AB, of Stockholm, Sweden, has successfully completed its tender offer for 4.35 million shares or approximately 51 percent of the 8.5 million outstanding shares of TechAmerica Group Inc., at \$4 per share. Some 5,887,345 shares were tendered. SDS Blotech, based in Paincsville, Oblo, is a manufacturer of agricultural chemicals and various animal health products.

Uniroyal, Goodrich Merge Tire Lines

B.F. Goodrich Company and Uniroyal Inc. have completed the merger of their list businesses with the formation of Uniroyal Goodrich Tire Company, based in Akron, Chis, with annual sales of about \$2 billion.

Hutton Likes Outlook for Hercules Incorporated

John P. Henry, chemical analyst at E.F. Hutton & Co., is rating the shares of Hereule Incorporated for "aggressive purchase" by short-term investors and "accumulate" long-term investors. Hutton expects Hercules to earn \$3.75 per share this year and purchase in 1987, up from \$2.40 per share last year. Hercules' strong prospects are enhanced by upcoming joint venture for water soluble products with Henkel AG, of West Germany

Oppenheimer Likes Koppers and Chemed Stocks

Koppers Company should earn \$2 per share this year and \$3 next year, following of \$3.75 per share in 1985, according to a report from Oppenheimer & Co. Oppenheimer chemical analyst, Charles J. Rose, is keeping Koppers on his special research recommended list, and is also recommending the shares of Chemical Corporation. Should earn \$2.30 this year and \$2.75 next year, versus \$2.21 per share in 1985. For Rose has reduced his forecast for Nalco Company to \$1.60 per share this year and he sees only \$1.75 per share next year, versus \$1.87 in 1985.

Dow Chemical to Boost Share in Magma Power

Magma Power Company, Los Angeles-based geothermal energy develored in Dow Chemical Company has declared its intention to take as Magma Power of the stock about \$400 million in accrued contractual fees due to Dow. When all transaction will enlarge Dow's holdings in Magma Power to almost 36.7 per 10. Dow exercise additional options it holds in the future, the stake gould ruse to percent, Before the latest action, Dow's Magma Power interest totalists.

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ALIPHATIC ORGANICS

VAM Pricing Could Firm Up As a Result of OPEC Move

say prices for the material have slipped somewhat since January 1, but at least one maker looks to the possible cut in OPEC oil production as a sign of a better

pricing climate to come. Last week, producers offered several perspectives on where pricing currently stands in the industry. Two makers said that 28 cents to 30 cents per pound, delivered, is roughly what an average, medium-sized account is currently paying. Another producer maintains that most material is moving at 25 cents to 27 cents per pound.

Producer's were unanimous, however, in uestioning the validity of a 21-cent price, f.o.b. Texas that has recently been reported. One maker says that that price, if available, would only be quoted to the very largest accounts, perhaps those taking in excess of 50 million pounds, and is not representative of the market.

Another maker emphasizes that the 21cent price is f.o.b. rather than delivered, and customers paying this price would probably provide their own transportation.

PRICES HAVE DECLINED

In any event, prices have come down since January, by 11/2 cents, according to one sunplier, and by as much as 3 cents according to

Not surprisingly, the plunge in crude oil prices is at the heart of price weakness in VAM, according to producers. "I'm sure that supply and demand play a role," says onc. 'but the major reason is hydrocarbons."

He tells the by now familiar story of chemical makers who must contend with customer reaction to pricing at the gas pump and the resultant pressure on the prices of all crude derivatives.

Apart from the crude oil situation and a /AM oversupply, it's asserted that one producer may be contributing to price weakness by concentrating more on moving captive raw materials output than on obtaining acceptable prices for finished VAM production. The assertion is donled.

Softening methanol prices also play a role, according to a marketer. "Certainly methanoi has taken a dive," he asserts. At the beginning of the year, methanol was reported selling at about 38 cents per pound (CMR, 2/3/86, pg. 17). Methanol was reported selling for approximately 30 cents per pound in

Overcapacity is an issue of some dispute among domestic makers. One supplier calls VAM "a commodity with tremendous world-

wide oversupply," and continues that "there is more than adequate supply in the US because there has been a big export market." He asserts that the export market can be "as much as 600 million pounds," and likens this market to "the output of one large plant."

That becomes significant if exports decline and exporters are left looking for a place to put their product. The producer says the export market is currently seeing a price decline similar to that in the US market, and he suggests that "currently, everyone is con centrating on the US market.

"Some people who typically export VAM are trying to move product in the US." saves competitor, but he discounts the overall el-

PRICES TRENDLINES

WEEK ENDING AUG. 8, 1986

CHANGES/UP

CHANGES/DOWN

ALIPHATICS INDEX

The Allphatic Organics index reflects the prices of 20 representative materials in this sector and the quantity of each produced in 1985.

Aug. 8, 1986	***********************	222.60
July 31, 1986		222.80
July 11, 1986	***************************************	222.80
Aug. 9 1985		203.80
14g. 0, 1000	***************************************	

Chemical Prices Start on Page 32

feet of this trend. "We have seen some male rial," he continues, "But whatever problem that will cause have already been seen." Another supplier says that excess VAM capacity is not really the central issue right now. Rather he says, the limiting factor in the

market is acetic acid capacity. "There has been overcapacity for VAM for the last few years," he acknowledges, but he ilso points out that "acetic acid used to make VAM is running full out industry-wide." lle asserts that "all VAM producers that produce acetic acid are running their acid ca-

pacity as hard as they can." Thus, he concludes that "people aren't col-

ting VAM pricing to use more capacity. A competitor feels that a strongtheole may be close at hand for VAM, based on signs that OPFIC will finally take action to shore! sagging oil markets. "Fundamentally Rsip crude oil situation that is responsible look

ALIPHATIC ORGANIC EXPORTS: JUNE

BUREAU OF CENSUS FIGURES IN POUNDS ON THE KEY ALIPHATICS

		J	UNE	WALLE
		QUANTITY	\$ VALUE	QUANTITY VALUE
	Acetic Acidlbs.	6,424,080	695,632	11,920,118
ı	Acetonelhs.	3,069,612	954.110	7,348,694
1	Acrylonitrileiba.	98,520,388	26,329,359	76,290,754 21,113
ı	Adipia AcidIbs.	5.762.611	2,546,662	9,269,393
	Buladiene!bs.	21,320,560	4,595,367	12,426,604
	Butanolibs.	8,125,776	1,584,571	6,153,002
- 1	Butyl Acetateiba.	3,876,220	1,041,182	7.423,101
	Caprolactam!bs.	1,379,997	746,876	2,718,171 15 22
1	Chlorinated Hydrocarbonsbs.		1.758.481	16 386,135 -2.54
	Ethanoleminesibs.	9,191,296		12,420,070 3,571
	Ethyl Acrylatebs.	18,143,958	5,257,609	5,698,666 2,60
	Ethyl Alcohollbs.	6,124,713	2,404,542	120,132
	Ethylene Dichloride	53,677	109,235	58,208,198
İ	Ethylene Glycol	15,899,813	603,847	60,376,317
	Ethylene Glycollbs.	44,907,851	7,421,672	1.855,724
	Formaldehydeibs.	1,905,517	309,632	296,259
	Glycerine (Crude)	391,418	185,325	806,138
	Glycerine (Refined)	380,097		6.462,606
	Methodol	3,154,589	1,940,195	6.249,711
ĺ	Methonol, (ba.	3,992,959	1,371,277	A CAR AND BUILDING
ı '	Methyl Ethyl Ketonelbs.	7,440,451	1,774,549	9,260,603 12,010,893
	Methyl Methacrylate	6,309,108	2,512,121	14.017年ままは1990日
	Methylene Chloride	2,586,382	563,008	5.440.737
	Perchiproethylene	1,971,053	346,996	8,648,011
٠,	Polyethylene Glycol	590,189	414,835	26.65 1.05 1 1 10 A
ŀ	Description of the party of the	18,081,987		20.017,125
ì	Propyl Algohol	205,583,086	4,820,895	19,516,872,141 6,621,442 29,469,06014
l	Propylene Glycol	9,255,988	1,775,209	on all of the last of the last
Ì:	Trichleton Marie Carrette Constitution Control Constitution Control Co	4,713,072	1,784,206	
Ŀ	Ulmi A and the	1,627,562	409,689	** ** ** ** ** ** ** ** ** ** ** ** **
U	Tieffe and Chete and bereitungeneben genenengenennen in 104	35,793,020	6,879,081	137.5.1至今 医 亚洲全国的
Ŀ	- Taniarietheitelle beiteriefeben tententententententententententententent	89,502,781	10,404,645	

ALIPHATICS

current psychology," he says.

He suggests that a change in the current weak oil market, which could be produced by an OPEC agreement to cut production, could reverse that psychology.

A potential result could be firming in all derivatives markets, including VAM. "I think the OPEC settlement, at least on a temporary basis, plus the acetic production picture, could lead to a firming." In any event, he says that price decreases have halted for the mo-

The VAM industry is basically mature, producers say. Domestic demand totalled 2.1 billion pounds in 1985 and is projected to grow to about 2.2 billion pounds during 1986. Producers say they expect to see demand growth of between 1 and 2 percent per year over the next three to five years.

GLYCERINE — Production of crude glycerine, including synthetic, totalled 23.1 million pounds in June, according to Department of Commerce. That represents a 1.7-millionpound decline from the production level seen in June of 1985, and a 5.6 million pound decline from May 1986.

Producers' stocks of crude and refined glycerine stood at 40 million pounds at the end of June, Commerce says. Stocks at the end of June were up 2.2 million pounds from end-of-May levels, and up 15.4 million pounds from levels seen in June of 1985.

Glycerine imports amounted to 2.8 million pounds in June, compared to 4.1 million pounds during the previous month, and 5.3 million pounds in June of 1985.

As of the end of June, cumulative imports stand at 28.9 million pounds, compared to 19.8 million pounds during the same period in

At 800,000 pounds, exports in June were unchanged from the level of the previous month, but were down sharply from the June 1985 total of 3.6 million pounds. Cumulative exports, through June, stand at 8.6 million pounds, just over half of last year's total for

Total domestic disappearance of glycerine was 22.9 million pounds, down from the May total of 28.3 million pounds, but above the June 1985 figure of 21.7 million pounds. Year-to-date domestic disappearance amounts to 174.5 million pounds as of June.

'Green Book' Advertisers

Advertisers in the OPD CHEMI-CAL BUYERS DIRECTORY ("Green Book"), sister publication of CHEMICAL MARKETING REPORTER, advise us that they are being solicited by Associated **Business Directories of Winter** Springs, FL, to advertise in that concern's Commercial Chemical Directory for 1987.

Accompanying its invoice-like statement, which the company insists is not a bill, is a tear sheet of the advertiser's insertion in the 1986 edition of the OPD CHEMI-CAL BUYERS DIRECTORY.

This is to notify all customers of Schnell Publishing Co., parent or-Janization of both the "Green Book" and CMR, that (1) we have no connection with Associated Business Directories or its Commercial Chemical Directory, (2) use of advertising tear sheets taken from the 1986 "Green Book" was not authorized by us and (3) the purchase of advertising space from Associated Business Directories WILL NOT GUAR-ANTEE placement in the 1987 edition of the OPD CHEMICAL BUYERS DIRECTORY.

Celanese Set to Sell Methanol to California

Celanese Chemical Company has signed "a letter of understanding" with Applied Cogeneration to sell fuel methanol to Applied Cogeneration, which in turn will resell the methanol to industrial and transportation consumers in Southern California.

Applied Cogenerations says it will focus its marketing activities on converting stationary industrial boilers and turbines, firedprocess equipment and certain transportation sources to allow them to burn fuel-grade methanol. A company official says concern over pollution in Southern California provides a "huge" market potential for clean burning alcohol in industrial power systems.

Applied Cogeneration is a 50-50 partnership between Applied Western Systems, Inc. and Lionheart Resources Corporation, of

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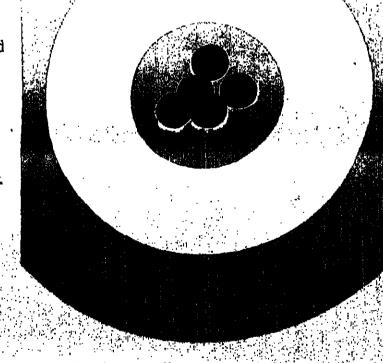
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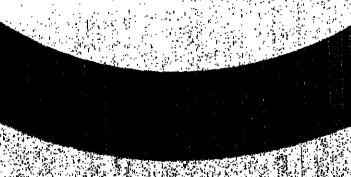
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Shell Chemical Company



The second secon

AROMATICS

Continued from Page 13

serious than that would indicate, since Union is said not to have attempted to obtain supplies from other producers.

Chevron Chemical, which said on January I that it was leaving the business, says it has since "seen a little more healthy environment" this year with Du Pont's shutdown and the elimination of half the industry's 4c. per gallon price discount.

Consequently, the company's 38-million gallon-per-year Port Arthur, Tex., plant, which had been running only "off and on (for) a couple contract customers we were obliged to continue supplying," has recently been running closer to capacity.

With the 5c. per gallon benzene contract decrease, cyclohexane pricing falls 4.1225c. per gallon in accordance with the industrywide pricing formula. The new prices range from Phillips Chemical Company's 85.40c.-per-gallon price to Texaco Chemical Company's 84.40c.-per-gallon price.

DMT - Although feedstock paraxylene prices have held steady, dimethyl lerephthal-

past three months, to 23 1/1 c. per pound from 241/2c. per pound

Producers say the lower price is a result of reduced energy costs and weak demand from the polyester fiber industry, which accounts for about 75 percent of DMT consumption. While a negative growth rate is expected this year for shipments to the polyester fiber market, producers are optimistic about demand from other sectors.

The PET container market "is booming these days," remarks one producer, and another projects a growth rate of 10 to 15 percent this year. Demand from film, engineering, and specialty resin markets is said to be

"The fiber area is much more mature" than these others, comments one producer. Since most material for fiber use is supplied internally, he says, the healthy growth rate in non-fiber DMT demand has led to a noticeable increase in the size of the merchant Eastman Chemical, considered a "small

player" in the merchant market by other producers prior to its withdrawal from contractual business in the first quarter, says that it intends to supply the spot market if it

GPC ethyl alcohol.
The pure and simple solution.

ate pricing has dropped 1c. per pound in the has material available, but that internal requirements so far have forestalled the exersing of that option.

> NONYLPHENOL - Two producers who raised off-list pricing in early July by Ic. per pound, say the move was unsuccessful. When the prices were increased, it was said they were responding to rising phenol costs.

However, producers say that phonol pricing, after rising briefly, fell back to June levels. This is attributed to weakness in the

benzene market during July and competitive pressures within the phenol industry.

Demand for nonylphenol, which is used in surfactants, lube oil additives, emulsifiers nd antioxidants, is described as steady.

THIODIPHENOL - Crown Zeilerbach Corporation says that earlier this year it resumed production at its 2-million-pound-peryear Camas, Wash., facility. When the plant went off stream last year, it was said that the move was permanent

"Our chemical products division felt that the plant did not fit strategically" into company plans at the time, says a spokesman. Since there has been no other producer of thiodiphenol active this decade, customers vigorously built inventories prior to the shut-

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down, the company source says,

Customers eventually were successful in persuading Crown Zellerbach to start up ngain The current price of \$3.35 per pound for shipments over 350 pounds is said to be slightly above the 1985 level.

The main use for thiodiphenol is reportedly as a larvicide intermediate. The company says that other uses are in dye manufacture. ing and wood preservation, and that potential end markets being looked at include adhesives, fire retardant plastics, and thermoplastic resins

Industrial Biocides

Continued from Page 4

nies develop responses to "data-call-in notices" for more than 700 biocidal chemicals registered in California. The California Department of Food and Agriculture issued the notices last January, in accordance with the state's Birth Defects Prevention Act of 1984

The notices require registrants to submit data on certain toxic, encogenic and reproductive effects of the registered pesticides Companies that do not have the data must initiate studies and submit reports by specified dates. CMA estimates that costs for developing the required data could be \$1.5.2 nillion per chemical.

Currently, the panel is also focusing its efforts on reauthorization of the Federal insecticide, Fungicide, and Rodenticide Act providing input in the development of EPA's upcoming anti-microbial testing requirments; and preparing to address upwers state and Federal data requirement 🕷 🕒 ert" substances used in the manufactured pesticides.

BASF Plans Sale Of Colorants Unit

Polychrome Chemicals Corporation Bloomfield, N.J., says it is in the process of negotiating a definitive agreement with BASE Corporation for the acquisition of most of the assets of the RBH Industrial Colorans business in Bound Brook, N.J.

On completion of the purchase, Polychrome intends to operate RBH in generally the same manner as in the past. Polychrom Chemicals operates two other facilities is New Jersey and two in Illinois, all serving the coatings industry.

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Oil Services Industry Drops

dwindled this year. Spokesmen agree Others, though, say there is no reason to exthat catastrophic conditions were prevented only by a diminishing requirement within the depressed oil services

Last Fall's guar crops in India and Pak-istan, the world's leading sources, were poor because of unfavorable weather. Guar import statistics for 1986 reflect this. Through May, 29.3 million pounds of guar had entered the US, about 45 percent less than the 53.7 pounds which came here through May 1985.

The US imports almost all of its guar requirement. While it is common for companies to build their inventories, most spokesmen agree that virtually all 1986 imports are being sold immediately.

In a typical year, claim spokesmen, present supplies would fall far short of demand. However, the oil services industry, which uses about half the guar sold in the US, is buying on a hand-to-mouth basis because of declining activity and plunging oil prices. According to Hughes Tool Company, 721 rigs were active last week. Although the number of active rigs has slightly risen in each of the last three weeks, the total is far below the 1,995 active rigs at the end of December. Moreover, the active rig total only began to rise after reaching an all-time low of 663 on

OIL BUSINESS DECLINES

Therefore, "tightness is not a major problem (because) the oil business has fallen off significantly." Says a spokesman, "Any shortages in the crop were almost negated because the oil volume wasn't there."

Other markets for guar, such as the textile, food and paper markets, are flat, say spokesmen. Currently, Federal measures are being considered to aid the faltering US textile industry, although these measures are opposed by the Reagan Administration. Even if measures are taken, says one spokesman, the guar industry probably wouldn't benefit much. "It could possibly help, but not to a major extent," he says.

Because of low demand overall, customers are obtaining material. However, notes one spokesman, the market is "sensitive, delicate. There's just enough to take care of all

Now the industry awalts the next crop. Industry spokesmen are hesitant to speculate so soon (the height of the season is in September and October), but some claim that preliminary signs are not encouraging. While it's the monsoon rains of September and October which help the crop flourish, rain is needed now to help the seeds germinate, and some spokesmen indicate that these rains are late. They should be coming now, or have even slightly passed." Another spokesman sus-

As predicted, guar gum supplies have pects that "the rain hasn't been that good." pect a poor crop.

DRUGS & FINE CHEMICALS

Guar Gum Supplies Plunge;

One spokesman claims that the price of "splits," or raw material, is often an accurate indicator of what is in store for the industry. He claims that when the price of splits comes down, the rainfall has been adequate. Conversely, the price rises when rainfall is not adequate. If the price remains steady, he says, that means the situation is "spotty" and could go either way. Currently, split prices are steady which, according to this spokes-

PRICES TRENDLINES

WEEK ENDING AUG. 8, 1986

CHANGES/UP

CHANGES/DOWN

DRUGS INDEX

The Drugs & Fine Chemicals index reflects the prices of 10 representative materials in this sector and the quantity

21 2021 p. 000000 II. 10001	i
Aug. 8, 1986 211.16	l
Aug. 1, 1986 211.16	
July 11, 1986 211.16	
Aug. 7, 1985 211.16	l

man, indicates potential difficulties. He concludes that "if we get a second (consecutive) bad crop, it's going to be tough.

Chemical Prices Start on Page 32

Split prices are quoted at less than \$1,000 per metric ton by several spokesman, with one saying the price is closer to \$900. Prices for the various grades of guar gum range from 50 cents to \$1 per pound, with many observers narrowing the range to between 50 and 75 cents per pound. These prices usually vary widely, and depend on quality and quantity. Prices have fallen slightly since the beginning of 1986, but are still above last year's levels. Guar gum prices doubled when it became apparent supplies would be tight. At the time, say trade sources, it was not expected that the oil services industry would be so depressed, and companies worried about meeting demand. Spokesmen say that if the next crop does turn out to be good, prices

Current US consumption of guar gum is estimated between 100 million and 120 million pounds. Two spokesmen speculate that about 60 percent of the raw material is processed overseas, with the rest processed in the US.

IVERMECTIN - Merck & Co.'s MSD

DRUG & FINE CHEMICAL EXPORTS: JUNE

PUNEAU OF CENSUS FIGURES ON THE KEY DRUGS.				
Andblotics:	QUÀNTITY	\$ VALUE	QUÂNTÎTY	MAY VALUE
Ampleilin and salts, bulk	17,781 48,998	1,246,759 5,925,361	110,109 48,233	1,201,363 9 7,237,897 4
Tenicilias, G Salta, Bulk	3,767,087 1,670,053	4,868,212 925,447	114,231 1,263,981	
Tetracycline	1,956 312,878 78,444	2,691,239 593,464 129,613	11,918 152,771 13,181	6,945,776 1 251,811 3 46,040 9
Citric sold	650,046 1,18B	596,722 167,559	440,986	. 475,7146
Corticosterolds, rispf	4,968 4,598	8,762,758 656,289	5,460 2,341	6,669,8057 1,618,987 1
Prednisolone and esters safts	4,219 18,425 100,039	4,719,627 3,432,705 1,407,876	4,250 21,641 58,329	6,405,0653 4,885,4985
Ascorbic Acid	119,809 104,126	563,635 196,665	105,782 58,984	70,6077
Vitamin E Vitamin (b)	5,325 3,086 74,843	64,239 34,578 762,135	14,689 1,229 4 81,345	128,352 2 1 28,124 3 :- 1,280,992 1
D and Di pantethonic acid ibs. Niacin and niacinamide bs. Vitamina, napf bs.		3,249	4.4 (0 43,190	37,420.4 105,871.2





CHEMICAL MARKETING REPORTER April 11, 1986

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DRUGS & FINE CHEMS

Agvet division has received Food & Drug Administration approval for the first product to control both the internal and external parasites of swine, the company says.

"Ivomec," an invermectin-based injection for swine, is the only product to control roundworms and lungworms by means of injection, while also controlling external parasites like lice and mange mites.

Previously, according to a Merck spokesman, animals had to be dipped into or sprayed with two products, one for internal control and the other for external control. Merck already has patents for ivermectin-based injections for cattle and horses in the US, and also has approval overseas for treating sheep and external parasites of swine.

FDA's approval was given July 22, and Merck's spokesman says the injection is now beginning to be marketed. The product's price will average 60c. per cc, which Merck's spokesman says is less than the cost of using two different products to do the same thing. He adds that injections allow for precise doses based on the animal's weight, and also subject the animals to less stress than they

would be by being sprayed and/or dipped.
PHENYLPROPANOLAMINE — The American Medical Association recently American Medical Association recently adopted a report recommending a delay in formulating guidelines for the use of PPA in diet preparations. AMA says this will be its policy until additional studies requested by the Food & Drug Administration are completed. AMA's report says that when the studies are completed, the Tentative Final Monograph (TFM) will be published in the Federal Register and the AMA can develop guidelines. Register and the AMA can develop guidelines

FDA's decision regarding PPA, due a few months ago, is still pending. A spokesman says no target date has been set.

Meanwhile, price is said to be stable, with lists in the high \$20-per-kilogram region. Actual selling prices are said to be lower, depending on the quality of the product.

SODIUM ALGINATE — There continues

to be an oversupply of sodium alginate. Most of the US requirement is supplied by Merck & Company, the only domestic source. However, much of the product is imported, and the rate of imports is increasing. Through June, 2.5 million pounds of sodium Through June, 2.5 million pounds of sodium alginate have come to the US, compared to 2.18 million pounds for the comparable period in 1985. Leading exporters to the US are England, Canada, Norway and France.

Demand is called steady. Prices range from \$6 to \$6.75 per pound for NF grade, \$3 to \$5 per pound for FCC grade and \$1.85 to \$3.50 per pound for technical grade.

\$3.50 per pound for technical grade.

But supporters of the override, including many Southern Republicans, said the sufficient statement of the sufficient statement of the sufficient statement of the sufficient statement of the support of the sufficient statement of the support of th in imports over recent years had cost the

ChemClear Wins

ChemClear, Inc., Wayne, Pa., says it has received more than \$1.3 million in waste reatment contracts in the first seven months of its diversification into field service opera-

areas.
Carl Cording, ChemClear's president, says the expanded field service operation has grown continuously since its inception, with July accounting for almost one third of sales since the beginning of the year. "July has been a breakthrough month for this division, he says. "It is impossible to predict the actual impact field service operations will have on our total revenues, but I see it as a significant factor in 1986 and beyond."

Firms to Fight US Textile Policy

The House voted to back President Reagan's trade policies last week, sustaining his veto of a bill that would protect the textile industry from foreign imports and require the administration to seek limitations on worldwide copper production.

The vote was 276-149, eight votes short of the two-thirds majority needed to override the veto. President Rengan has vetoed 47 measures and only five have been overridden by both the House and Senate.

The outcome signals the end for the controversial bill that the domestic textile industry said was needed to save it from surging im-port levels. The administration said the legis-lation would trigger retallation by America's trading partners.

John N. Gregg, chairman of Avtex Fibers and leader of an industrial coalition that supported the bill, said fiber producers will conlinue to fight imports.

"America's fiber, textile, and apparel industry and its two million workers have lost the battle, but not the war, against unfair trade. As long as there's a US Congressem powered to stop the flood of unfair imports we'll fight to gain its support," said Mr.

The bill would have rolled back textilead apparel imports from the three larges er porters - Talwan, Hong Kong and South Korea — and frozen imports from nine that nations, most of them in the Pacific Rim.

It also would have directed the President to negotiate voluntary production restraint agreements with the major foreign copper producers in order to limit worldwide output over the next five years. Restraint agreements with Chile, Zambia, Zaire, Peru and Canada likely would have required these countries to reduce their current production

The bill was passed overwhelmingly last year — 255-161 in the House; 60-39 in the Senate — but President Reagan vetoed it in December saying it was protectionist, would invite trade retaliation and would raise con-

"This was a bad bill last year and it's a bad bill now," said Rep. John Miller, R-Wash "It's bad for America's consumers...It's bad for America's workers...And it's bad for America's friends in the Far and Middle

Rep. Sam Gibbons, D-Fla., said the textile industry was the "most highly protected" in the US and maintained the industry is

White house officials and congressions supports said recent textile-import pacts with Taiwan, South Korea and Hong Kong, along with a renegotiated multilateral fiber agreement, showed the administration was heeding industry's concerns.

sands of jobs in the textile industry and wis evidence of a flawed trade policy. They said the new agreements would not help the indus-

\$1.3MM Contracts

The company, which operates four waste treatment facilities in the Northeast and Midwest, expanded its field activities in January to service industries requiring mobile crews for commercial waste cleanup of language. goons, contaminated tanks and drum storage

Superfund Tax Seen Unfair

aware," Mr. DiBona said in a letter to the all expressed general support for the non-tax

"Given your opposition to broad-based taxes, the effect of your letter is to leave crude oil and feedstock taxes as the only source of funding," the API executive wrote.

"There can be little doubt that many in

Congress will use your letter to claim the idministration supports increased feedstock and crude oil taxes as the only viable option." Mr. DiBona added.

API and Chemical Manufacturers Association have jointly recommended that general revenues be used to finance the bulk of hazardous waste site cleanup. Because Environmental Protection Agency has identified more than 6,000 potentially responsible dumpers from nearly every industry, the trade groups say the only appropriate alternative to general revenues is some other form of broad-based tax.

Although the tax issue is the only remaining unresolved matter in the nearly two-year superfund reauthorization debate, Capitol Hill observers say quick action by the tax conferees is unlikely. With Sen. Packwood and House Ways and Means Committee Chairman Daniel Rostenkowski (D-III.), tied up with tax reform, action on superfund will likely have to wait until Congress returns

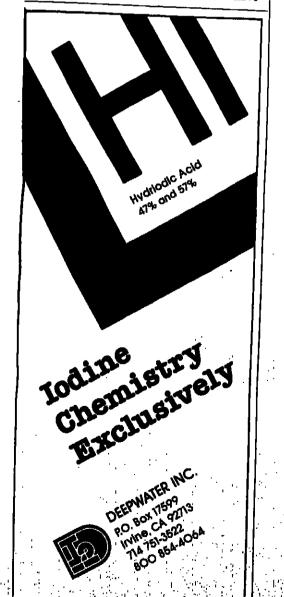
from its Summer recess, they say.
EPA administrator Lee M. Thomas says
the agency needs funds by Sept. 1 or he will have to notify contractors that they would be laid off in 30 days. Already some contractors, which carry on much of the cleanup program's work, are laying off employees be-cause of the low level of activity, he says.

Rep. John Dingell (D-Mich.), chairman of the superfund conference committee, says interim funding through appropriations, to be paid back later through superfund taxes, is "a possibility, not a probability."

Congress approved an emergency appropriation of \$150 million for superfund May

30, but EPA has nearly depleted those funds. Because Congress failed to complete the reauthorization before taxes to support the cleanup program expired Sept. 30, 1985, EPA has delayed work at more than 200 sites across the country.

Industry, environmentalists and EPA have



provisions of the new superfund bill agreed to by conferees on July 31.

"We felt all along there was material for a compromise," says a CMA spokesman. 'We're glad the bill is moving again because the program has been nearly dead for almost

Whether the chemical industry supports the bill, he adds, depends on how the all-important tax question is resolved. "The pressure is on to get a good broad-based tax to pay for this," he says.

Rep. Dingell, who was accused by environmentalists of supporting a "polluters' bill" during the divisive six-month conference, called the final bill "a superb piece of legislation." He says the bill is "hard on industry but

Mr. Thomas agrees that some provisions will be difficult to implement, but adds, "Overall, I think it's strong legislation, and

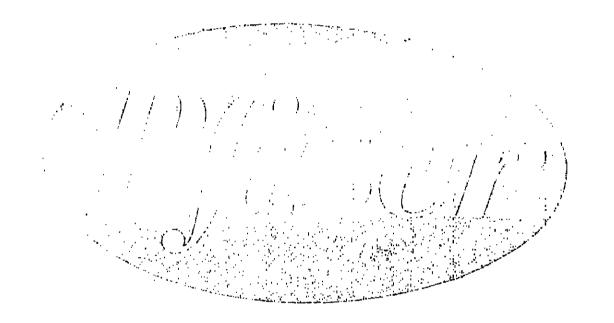
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Gas Price Fall Only Temporary

Although interstate pipelines reduced their overall cost of gas in 1985, much of the reduction resulted from temporary measures, a survey by the Interstate Natural Gas Association of America

says.

The survey of INGAA member-companies shows that pipelines reduced their overall cost of gas last year by 25 cents per MMBTU, an 8 percent decline from 1984.

The report says this decrease in gas costs occurred following partial wellhead decon-trol on January 1, 1985, when indefinite price escalators in gas contracts were putting substantial upward pressure on wellhead prices.

The INGAA report says domestic price effects accounted for 51 percent of the 1985 price decrease and imports accounted for 37 percent. Changes in natural gas purchase patterns accounted for an additional 12 percent of the total price decrease.

The report notes that a full one-third of the reported changes were due to temporary contract renegotiation and temporary release of gas, measures "averting the immediate effects of contract problems but not solving the problems."

INGAA's policy analysis department says in the report that "with imports accounting for a disproportionate share of the 1985 price reduction and one-third of the price changes resulting from stopgap measures, much of the market distortions and rigid gas purchase contracts remained at year-end 1985"

The report concludes that "although pipelines made some progress in controlling purchased gas costs, more contract renegotiation with producers is needed. The contract problems of 1985 were apparently only post-

Pesticide Reform Continued from Page 7

stronger role for the states when contamination in a drinking well exceeds the guidance

levels, and greater authority for EPA in the event that a state fails to act to ensure that

contamination is reduced or that people do not drink the tainted water.

The committee also adopted an amendment by Sen. Helms to restrict states' authority to set more stringent standards than the Federal government for certain pesticide residues on food.

The exemption, however, is limited to pes-ticides registered by EPA since April 1985. Sen. Helms explained that EPA has a complete data base on these chemicals, and their safety has already been proven.

The panel narrowly approved, 9-7, a motion by Sen. Richard Lugar, R-Ind., to delete provisions from the House bill requiring EPA to revoke food tolerances for pesticides whose use has been banned in the US. In effect, the tolcrance revocation would prohibit the importation of food containing any residues of a banned pesticide.

Sen. Lugar argued that such a requirement would be viewed by exporters as "a non-tariff trade barrier" that would invite retaliation against some US-approved food chemicals.

Boots Enters

operation. Mr. Theobald says the two sales forces make a "very good fit" because both call on the general practitioner.

Mr. Theobald says Flint provides Boots with the products, sales and profits to sup-port the launching of new products and a sales force expansion. Flint's major product is a drug used to treat thyroid deficiencies, called "Synthroid". It accounts for around \$6 percent of Flint's total sales.

Boots currently has two products under development. One, a heart drug called 'Flosequinan'', is in phase II trials in Europe and the US. Boots hopes to have the drug on the US market by 1990.

Another drug in the Boots pipeline is an antidepressant, which is said to be faster acting than others currently on the market.

With a strong US presence, Boots is aiming to capture a larger slice of the American market, which accounts for 28 percent of prescription drug sales worldwide, compared to the UK, which accounts for just 3

The purchase agreement between Boots and Baxter Travenol is expected to be com-

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Waste Facility Sites Debated

Continued from Page 3

when it amended the Resource Conservation & Recovery Act two years ago.

Rep. Florio said the dispute between the Carbide unit and the citizen's group is evidence of the need for clear-cut EPA standards to determine where waste sites should

man. "It's absolutely essential that EPA issue these regulations that are aimed at ensuring that all hazardous and toxic waste facilities are not located where they will cause environmental damage."

Mr. Lower said Unison's technology for removing PCBs from electrical transformers "can achieve the highly desirable goal of eliminating the threat which 300 million pounds of PCBs may pose for the environment, now and for the future,"

Through the company's technology, he said PCBs are removed from transformers and lestroyed, and the transformers can continue to operate free of the risks associated with their current levels of PCBs. Risks assoclated with landfilling PCB transformers are

PCB REMOVAL PROCESS

In Unison's process, Mr. Lower said the original electrical fluid, typically containing 50 to 70 percent PCBs, is removed from the transformer on-site and sent directly to an EPA-permitted incinerator, where it is de-

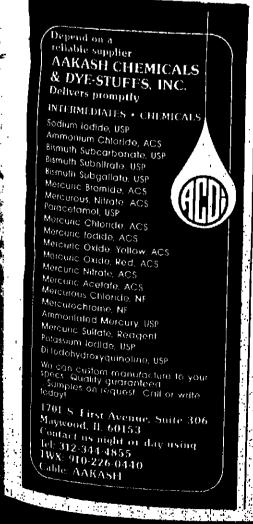
The transformer is then filled with TF-1, a proprietary interim fluid that leaches the PCB's out of the internal components of the transformer. Finally, the transformer is filled with a permanent dielectric fluid and reclassified to non-PCB status in accordance with EPA regulations

Mr. Lower said Unison's recovery center, nearing completion in Henderson, has been designed to separate the remaining PCB's from the TF-1 fluid. These PCBs are also sent to EPA-permitted incinerators to be de-

stroyed.

The Henderson site was chosen, he explained, because of its central geographic location between the majority of the transformers to be services and the three EPApermitted incinerators.

"While the Henderson recovery center falls under TSCA (Toxic Substances Control Act) regulations, our review of RCRA indicates there are no controls imposed on RCRA-regulated storage or treatment facili-ties that would cause the Hendorson facility



to be sited, designed or operated differently than we currently plan," Mr. Lower said. "In short," he added, "we are convinced that the center will not have an adverse im-

pact on its environment—either short or long

Mr. Lower also noted that the facility's "These regulations will go to the heart of environmental decisions now being made by states across the country," said the congressflood plains. He said the Henderson site is above the 100-foot flood plain of the Ohio River and miles from the New Madrid geologic fault line.

Jane M. McConathy, president of a citizen's group in Henderson, called Unison's logy a "black box" and accused the any of withholding important information from the community.

"Unison will not tell us the chemicals being used in their process," she said.

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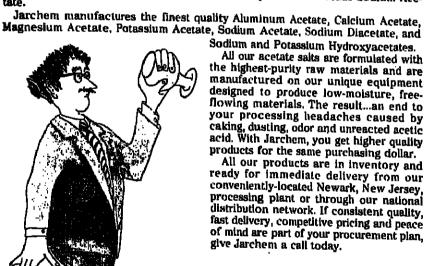
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Sunflower Oleic

ntend to sell crude oil, oleic acid and oleic acid derivatives.

Mr. Grasser says the crude sunflower oil developed by SVO Enterprises offers a higher oleic acid concentration (in excess of 80 percent) than does premium tallow (73-75 percent oleic acid concentration). He says the oil will be marketed to firms willing to pay a premium for a higher concentration of oleic

In addition to challenging other natural sources of oleic acid for the high end of the market, Mr. Grasser says that high oleic acid derivatives will eventually challenge the dominance of low-priced petrochemicals in the motor oil additives market.

In this market, petroleum-based products, such as ethylene oligomers, had displaced products based on natural oils, due to the sharp decline in crude oil prices.

Mr. Grassers says that high oleic acid derived chemicals will also be sold as lubricants in strip mills, hydraulic fluids, paper sizing and other industrial applications.

While Mr. Grasser concedes that sunflower oil derivatives still cannot compete with ethylene oligomers at present, he believes the pendulum will eventually swing the other way, with petroleum-based prod-

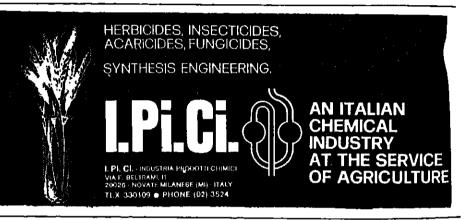
ucts rising in price, and high oleic acid derivatives made from sunflower falling in

Currently, Mr. Grasser says SVO Enterprises' high oldic crude sunflower oil is priced at 50 cents per pound. However, he anticipates the price will fall next year, since the company hopes to more than double the 40 million pound crude oil output earmarked for 1986. Eventually, he projects high oldic acid crude sunflower oil production will top 100 million pounds per year.

National Distillers Buys Texgas Corp.

National Distillers & Chemical Corporation last week announced the completion of its purchase of Texgas Corporation, the propane marketing subsidiary of Houston-based Union Texas Petroleum, for approxi-mately \$185 million, \$150 million in cash and the remainder in notes payable in January,

NDCC chairman John Hoyt Stookey stated that, "The acquisition of Texgas will further strengthen NDCC's retail, industrial and wholesale propane marketing businesses operated by Suburban Propane Gas Corporation. With the addition of Texgas, Suburban Propane will market propane to approxi-



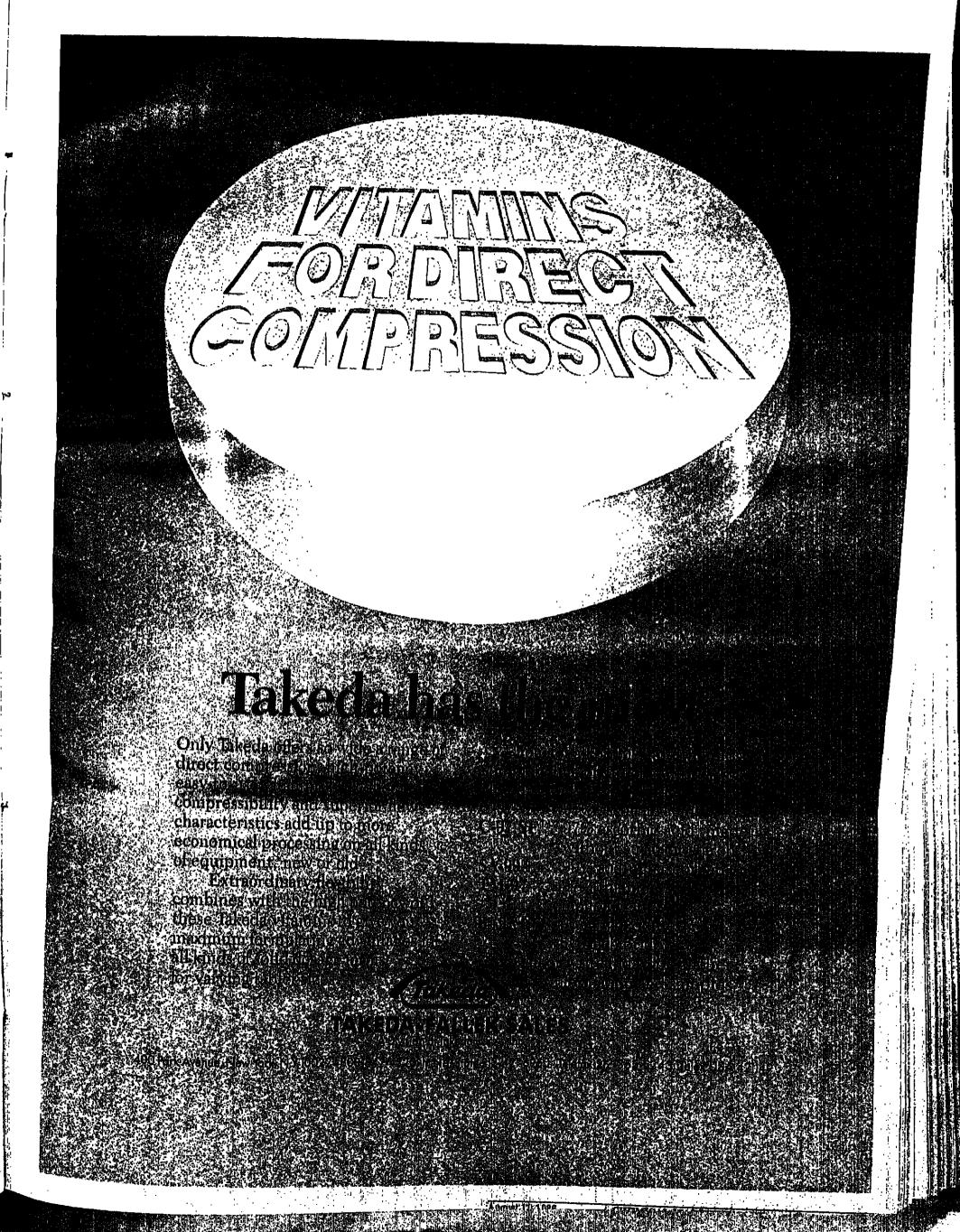
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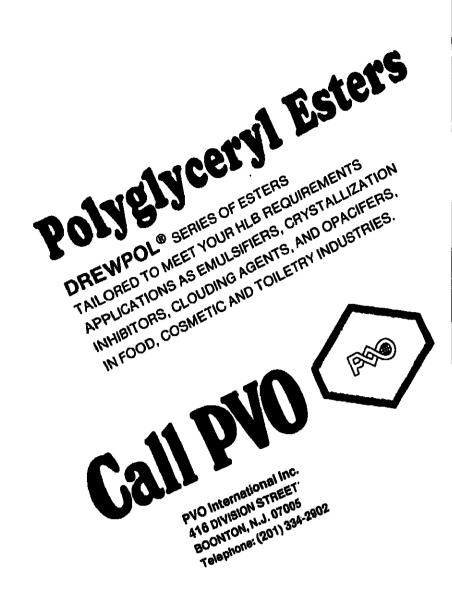
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Grapefruit Oil Supplies Tight; Industry Awaits the New Crop

Grapefruit oil supplies are extremely consumption figures for some beverages are down. For example, he cites the "Slice" scare tight throughout the world, especially in the US, due to what sources call a skyrocketing demand. Because no new material will be available until Florida starts its crop in December or January, the situation is not expected to change

Sources insist that the past season's crop was a good one, but just not strong enough to handle demand. "Crops weren't bad," says one broker, "demand soared Grapefruit oil is hard to get." Another agrees, saying that "demand is very unusual It's a dramatic thing.

Sources single out the beverage industry as the main reason for increased demand. Beverage demand very strong, says a broker. Another points out that consumption of beverages containing grapefruit oils is increas-

A dealer says price for California material is about \$2.25 per pound, although he admits the market is volatile. The dealer comments that in March, prices were between \$1.25 and \$1.50 per pound, but now 75 to 80 percent of his sales are at the \$2.25 price.

Florida grapefruit oll is even scarcer than the California oil, and is priced at \$2.75 per pound. One reason that Florida material is even harder to find is that Florida's season ends earlier than California's.

Folded grapefruit oil prices are also on the rise because of tightness. Last week, 5-fold Florida grapefruit oil rose to \$19.50 per pound, as did 5-fold Israeli grapefruit oil. Also, 10-fold Israeli grapefruit oil costs \$33.50 per pound. Prices are for 25-pound purchases. A broker says that now, it is often difficult, or impossible, to accomodate new

Price for redistilled nootkatone is stable at \$295 per pound.

Imports are behind last year's pace through June. Thus far, 103,000 pounds of grapefruit oil have entered the US, opposed to 111,000 pounds for the same period in 1985. The leading exporters to the US are Israel and Belize. Imports from Israel are down to 56.000 pounds from 68,000 pounds, while imports from Belize have risen to 45,000 pounds, from 35,000 pounds, Small amounts are also coming here from various countries

in Western Europe. One broker mentions that Mexico is starting to provide samples of grapefruit oil, and should be entering the US market next sea-

LEMON OIL — The lemon oil market is lescribed as sluggish, and price is soft as a

Italian lemon oil is especially weak, and fell by \$1 per pound, to \$12.50 per pound for a 22-pound purchase. A broker says supplies are plentiful, which is one of the reasons for

Another reason, says one source, is that

PERFUMES & FLAVORINGS

in New York City recently. A person claimed to have tampered with the soft drink, causing the company to temporarily take it off the shelves. "Slice" is back on the shelves now, but the source says the incident created bad publicity for the drink.

Meanwhile, 5-fold lemon oil remains at \$48

ORANGE OIL - Prices rose for the 20fold orange oil, says a broker, as domestic sources face increased production costs.

Israeli 20-fold orange oil rose to \$22 per oound last week, while the 5-fold and 10-fold

PRICES TRENDLINES

WEEK ENDING AUG. 8, 1986

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Fennel Seed, Turkish, Extra lancy, 4c. per lb.
Fennel Seed, Turkish, Extra lancy, 4c. per lb.
Fennel Seed, Turkish, Recleaned, 3c. per lb.
Mace, Padang Siltings, 25-50c. per lb.
Oregano, Greek 30, Mosh, 10c. per lb.
Oregano, Turkish 30, Mesh, 22-27c. per lb.
Poppy Seed, Turkish, 4c. per lb.
Turmeric, Peruvian, acc. qual., 1-3c. per lb.

CHANGES/DOWN

Caraway Seed, NY Recloaned, 4c. per ib.
Caraway Seed, Foncy/Recloaned, 2c. per ib.
Lemon Oil, Italian, \$1 per ib.
Mandarin Oil, Italian, \$1 por ib.
Pepper, Black Brazilian, 2c. por ib.
Pepper, Lampong, 1c. por ib.
Pepper, Malabar (August), 5c. per ib.
Pepper, Malabar (August), 5c. per ib.
Pepper, Muntok (August), 4c. por ib.
Pepper, Muntok (Sept.), 1c. per ib.
Tagetes Oil, \$10 por ib.
Turmeric, Alleppey FAQ, 5-5.50%, 2c. per ib.
Turmeric, Alleppey FAQ, ever 6%, 2c. per ib.

PERFUMES INDEX

The Perfumes & Flavorings Index reflects the prices of 11 representative materials in this sector and the quantily

or each supplied in 1900.	
Aug. 8, 1986	71.0
July 11, 1986	71.0
Aug. 7, 1985	82.6
Aug. 7, 1985	11, 02,

Chemical Prices Start on Page 32.

oils were priced at \$4.75 and \$8.95 per point, respectively. Florida's 5-fold orange oil re-

mains at \$4.25 per pound. Another broker comments that inexpensive low-fold material is coming to the U from Brazil, which is why other low-fold or ange oils are not firming. All prices are for 25-nound over the

SEED & SPICE IMPORTS: APRIL

A SELECTION OF STATISTICS FROM THE BUREAU OF CENSUS.

	APRIL	MARCH	1986 TO DATE APR.
Caraway seed	621.830	623,593	2,735,140
Celery seed	227.377	402.841	1 8008 90B
Cinnamon, ungroundlb.			896,705 178,1
Olimanion unground	103,286	270,924	
Cloyeslb.	170,098	446,486	1,277,175
Corlanderib.	699.384	550.891	2.077,029
Cumin seed ib.	325,149	940,029	3,116,086
Fennel seedib.			1,865,610
Classes at	399,467	550,843	
Ginger root	953.591	840.371	2,431,538
Mustard seed, whole	7,811,870	7.181.170	30,879,392
Nutmegs, unground	350.698	280,300	1,607,103
Orlganum, wholeib.			3,080,760
Bender	624,750	828,640	
PaprikaIb,	912,603	2,125,940	7,372,207 2 630.4
Pepper, black, unground	8,812,196	8.760.831	27,886,710 77818
Pepper, red, capaicum	142.945	1.457.791	385,897
Pepper, white, ungroundib.	241.217	610.036	2,205,229
Pistanta america d			744.91
Pimento, ungroundib.	723,713	280,595	
Sage unground (b.	502.889	339,302	1,186,725
Turmericib.	418,879	189,867	933,271 747
Vanilla beansib.			431.469
	305,204	271,478	A SERVICE OF THE PROPERTY OF T

COATINGS & PLASTICS

Acrylic Sheet Mart

cations, have not been affected, sources say. USX says prices for its continuouscast sheet run at around \$1 per square foot. Polycast, Inc. gives a price of \$1.34 per pound for cell-cast sheet.

Total US capacity for cell-cast, continuous-cast, continuously-processed and extruded acrylic sheet is said to be about 375 million pounds, roughly half of which represents cell-cast capacity. Some of this cellcast capacity has been mothballed, and may he permanently shut down at some point in the future. Producers agree that at least 20 percent of the cell-cast capacity is excess.

In discussing demand, producers prefer to group all sheet types together, describing a total acrylic sheet market (including cellcast, continuous-cast, continuously-processed and extruded acrylic sheet) of 315 mil-lion pounds, of which 280 million pounds is comprised of flat sheet and the remainder of prismatic formed sheet. 150 to 155 million pounds of this total is said to be composed of continuous and cell-cast sheet, with the remainder by continuously-processed and ex-

Total US capacity for molding and extrusion powder and pellet production is said to be about 250 million pounds, with 165 million pounds for molding powder and the balance for extrusion pellets

TOTAL MARKET DEMAND

Total demand for the molding and extrusion pellets and powders is about 216 million pounds of which 66 million pounds represents high-impact grades and 150 million pounds total merchant demand for molding powders. At least 35 million pounds of molding powders are produced for internal use by sheet producers in formulation of continuously processed sheet.

Some sources fear that planned sheet exinsions will create an overcapacity probiem in the molding/extrusion end of the market, with the possibility of long-term depressing effects on pricing. Since 1984 prices for these grades have remained stable.

Truckload prices for Continental Polymers molding/extrusion compounds are 91 cents per pound for "CP-51"; \$1.02 for CP-923 and \$1.09 for CP-925 and \$1.24 for highimpact CP-1000. Similar prices for Rolan and Haas products are given, with 91 cents per pound for clear general-purpose grade (colored grades costing an additional 5 conts per pound) and up to \$1.27 per pound for truckload quantities of high-impact grade.

Overall growth in the molding/extrusion egment of the market has been dominated by the construction and automobile industries. Due to an increase in auto imports this egment of the acrylics market has been down by as much as 4 percent this year.
Although certain small markets for recently developed applications including

molded acrylic compounds used in medical instrumentation components such as connectors and chest-drainage units, and molded videodisk components are annualy showing double-digit growth, and are expected to continue at this rate, they are overshadowed by a flat growth picture overall, producers say.

PLASTICS ADDITIVES

AZODICARBONAMIDE - The market for azodicarbonamide blowing agents has been flercely competitive for the past two years, producers relate.

One small producer says that current selling prices range around an average of \$1.65

PRICES TRENDLINES

WEEK ENDING AUG. 8, 1986

CHANGES/UP

CHANGES/DOWN

COATINGS INDEX

The Coatings & Plastics Index reflects the prices of 13 representative materials in this sector and the quantity of each produced in 1985

Aug. 8, 1986	
Chemical Prices Start	on Page 32

per pound for the largest volume customers, a substantial discount from the listed price of \$2.60 per pound. A spokesman for the firm complains that they have been hurt by Japanese, French and Korean imports, (One Japanese firm which exports to the US gives a selling price range of \$1.40 to \$1.86 per pound, depending on grade and quantity.)

Although imports have affected larger producers as well, there is a feeling among major suppliers that the situation is stabilizing, and prices may soon be on the increase, due in part to the change in yen-to-dollar

Overall demand has been increasing at GNI' growth rate, roughly 4 percent from

ast year, a source relates. One potential high-growth market is that of blowing agent compounds. Although azodi-carbonamide is FDA approved, it is dusty and difficult to work with. Sources report that both Nortech and Polyvel, Inc. are offering net (azodicarbonamide compounds containing 20 to 25 percent of the agent) for use in Continued on Page 30

COATING & PIGMENT IMPORTS: MAY

CENSUS BUREAU REPORTS ON THE TOP PAINT MATERIALS.

Chrome ovide	\$ VALUE 1,893,204 3,063,409 539,493 119,976
Chrome cyline - 1,522,700 10,493,001	3,083,409 539,493
Chrome cyline - 1,522,700 10,493,001	3,083,409 539,493
Chrome ovide	539,493
Maria Onice green	
Molybdate graen ibs. 226,875 230,391 574,492 Yellow ibs. 177,500 118,884 116,460	
Yellow lbs. 177,500 118,884 116,460 Zinc Yellow lbs. 209,240 142,145 349,018	253,318
Zinc Yellow lbs. 209,240 142,145 349,018 Cobalt Oxide lbs. 166,262 98,028 280,000	144,718
Cobalt Oxide Iba. 156,262 99,028 260,000 Cuprous Oxide Ibs. 19,469 185,791 116,419	1,068,021
Cuprous Oxide	
ron blues bs. 80,000 69,978 79,683 lon oxides, hydroxides, nest bs. 525,911 627,354 492,807	77,452
Ron oxides, hydroxides, netti 525,911 627,354 492,807	601,622
B Synthetic. 3,260 110,340 :	18,940
	0.1111
Red. lbs. 141,732 38,385 118,571 Yellow lbs. 1,189,234 373,567 1,079,656	35,092
- Tennu	304,340
	845,402
	698,564
	272,422
	16,837
	187,204
Seed isc	196,671
Titanium dioxista 577,132 874,460	501,287
Witament	614,268
White least one and the deep time to the time time time time time time time tim	576,403
Zine Oxide (lead tree) 160,127	73,098
White lead, basic carbonate ibs. 437,471 431,786 558,738 250 Oxide (lead free) ibs. 1,157 5,899 160,127 160,127 17,624,466 1 2	288,723
Zine Oxide (lead free)	

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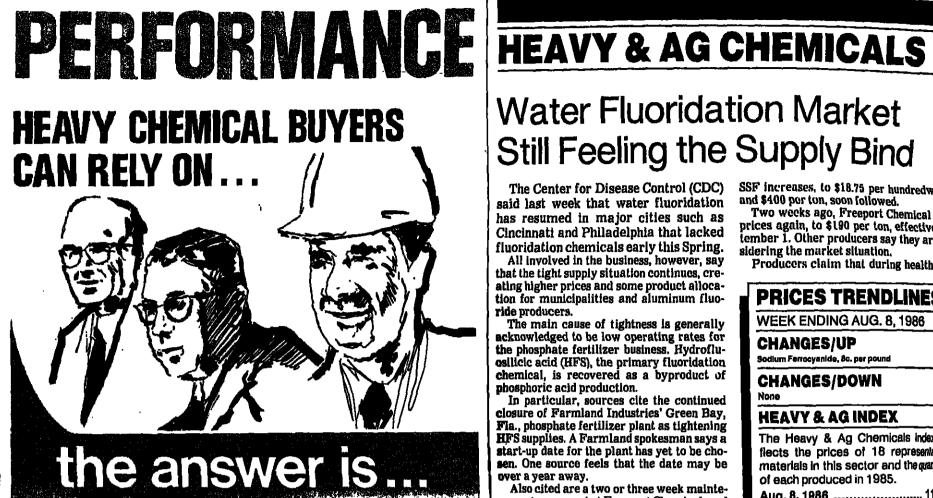
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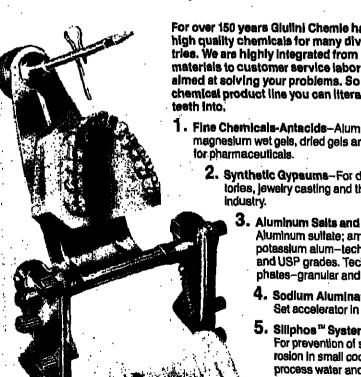
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Water Fluoridation Market Still Feeling the Supply Bind

The Center for Disease Control (CDC) said last week that water fluoridation has resumed in major cities such as Cincinnati and Philadelphia that lacked fluoridation chemicals early this Spring.

All involved in the business, however, say that the tight supply situation continues, creating higher prices and some product allocation for municipalities and aluminum fluoride producers.

The main cause of tightness is generally acknowledged to be low operating rates for the phosphate fertilizer business. Hydrofluosllicic acid (HFS), the primary fluoridation chemical, is recovered as a byproduct of phosphoric acid production.

In particular, sources cite the continued closure of Farmland Industries' Green Bay, Fia., phosphate fertilizer plant as tightening HFS supplies. A Farmland spokesman says a start-up date for the plant has yet to be cho-sen. One source feels that the date may be over a year away.

Also cited are a two or three week maintenance turnaround at Freeport Chemical, and minor production problems at Conserv's

Other major HFS producers include Gardinier, Texasgulf, W.R. Grace and La Roche Industries (formerly USS Agrichemicals). Not all phosphate producers recover HFS.

Also in short supply is sodium silicofluoride (SSF), which is produced from HFS and used in the dry fluoridation systems often found in smaller cities. Producers in this business are Gardinier, Kaiser Chemicals and Cherntech Industries. According to one source, two SSF producers have left the market over the past two years, victim of the poor margins that existed prior to the

CDC says that at present, all major cities are fluoridating. A spokesman acknowledges, however, that spot shortages, espe-cially for smaller systems, have been re-ported. In addition, he feels that overall the fluoridation chemical market was tighter this Summer than it was in 1982, when HFS supplies were also low.

One municipal water manager, whose city was not fluoridating four months ago, says full fluoridation has since resumed. He adds, however, that some delivery delays have

Similarily, one buyer for an aluminum producer says material is available, but admits that his company is not able to purchase as much as it would like. The aluminum Industry produces aluminum fluoride from HFS as part of its cryolite refining process.

Some fluoride chemical producers say they are currently selling on an allotment basis; one says he continues to get calls requesting spot sales that he must turn down.

Prices have risen as a result of the supply situation. Producers increased HFS prices in mid-Summer to \$140 per ton for 100 percent acid, f.o.b. plant, from \$100 per ton. Similar

SSF increases, to \$18.75 per hundredweight and \$400 per ton, soon followed.

Two weeks ago, Freeport Chemical hiked prices again, to \$190 per ton, effective September 1. Other producers say they are con-

sidering the market situation.

Producers claim that during healthy see

PRICES TRENDLINES

WEEK ENDING AUG. 8, 1986

CHANGES/UP

CHANGES/DOWN

HEAVY & AG INDEX

The Heavy & Ag Chemicals Index reflects the prices of 18 representative materials in this sector and the quantity of each produced in 1985.

Aug. 8, 1986		113.69
Aug. 1, 1986		113.69
July 11, 1986	***************************************	113.69
Aug. 7, 1985		113.69

Chemical Prices Start on Page 32

sons for phosphate fertilizers HFS supplied are much looser and prices are poor. When high and low price periods are averaged out, they say, overall returns are only moderate Prices to municipal users vary and are

generally higher than producer price sources report, since most HFS and SSF gos hrough distributors first. Prices to aluminum fluoride makers, how

ever, are generally lower, reflecting long term contract arrangements and the atknowlegement on the part of HFS produces that the aluminum industry is depressed.

CDC sponsored a meeting in June to discuss averting fluoride chemical shortages in

the future. Among other things, CDC recommended the installation of storage equipment by consuming municipalities. Based the observation of the effects of previous the observation of the effects of previous the constitution of the effects of the effec shortages, a three-month reserve is consid-

A CDC spokesman points out that such an investment for a smaller city might actually prove cost effective because it would allow for the reception of bulk and consequently lower priced shipments. For larger (its, storage facilities would not reduce costant inficantly but would insure steady supplies.

nificantly but would insure steady supplies.

It is generally acknowledged that storage equipment installation is not in the interest of suppliers. Municipal contracts tend to be awarded on a lowest bid basis. Consequently, there is little loyalty to suppliers on the part of municipalities and no supplier incentive exists to make long-term investments.

Estimates of these demand wary. One

Estimates of HFS demand vary One source sees industry capacity of over 100,000 tons per year, on a 100 percent basis, but feels current production is closer to 75,000 tons

FERTILIZER CHEMICAL OUTPUT: MAY

CENSUS BUREAU NUMBERS IN SHORT TONS ON KEY FERTILIZERS!

,		MAY	APRIL
Ammonia, syn., anhyd.		1,269,247	1,266,160
Amonium hitrate		494,767	529,262
Ammohlum nitrate/urea solutions		198,179	228,505
Monoammonium phosphatas	: '	74,991	156,100
Other ammorium phosphates		52,496	62,032
Ammonium suifate		191,532	165,761
Diammonium phosphate,		691,861	600,001
Nitric acid		631,009	200 A10 (ac)
Phosphoric sold		766,703	9 211.007
Superphosphate, concentrated		3,112,124 102,689	293.280
Superphosphate, normal & enriched	1 .	10.207	35.461
Superphosphete, other phosphete fart	* * * :	1.031.144	1 137,416
Urea		605.462	601,639

HEAVY CHEMICALS

per year, for all end uses, because of low fertilizer industry operation rates. Another puts HFS demand by the water

fluoridation business between 16,000 and 18,000 tons per year. SSF demand from both water treatment and industrial accounts is estimated between 18,000 and 20,000 tons

CDC estimates that water fluoridation is growing at about 2 percent per year. This is slightly higher than the growth of the population using public water, which in turn is slightly higher than population growth in

CDC says 62.8 percent of the US population on public water systems receives fluoridated water. This translates into 54.8 percent of the population as a whole.

BASES & SALTS

ARSENIC TRIOXIDE - Sources say that since Asarco, Inc. pulled out of the business in mld-1985 the market has been dominated by Boliden Metall AB of Sweden and Industria

A limited amount of material from Metallurgies Hoboken-Overpelt of Belgium is also on the market. Cominco of Canada is said to be aggressive lately, and a French producer is also said to be active.

In addition, one source says that Asarco sold from stockpile through May of this year, although Asarco now says it has withdrawn totally from the business.

Demand is called good by one supplier, based on the strength of the wood preservative industry, arsenic trioxide's major end use. Its use as a cotton defoliant and desic-

cant is not doing as well, he says. The material is produced as a byproduct of copper mining, when the mining takes place in arsenic-rich ore. One observer predicts that more producers may be entering the market in years to come as foreign governments become more concerned with the trants. The Asarco material was 95 percent

pure. Sources say that 99 percent material is now more prevalent and preferred because it involves less handling and has less of a tend-

ency to clog processing equipment.

Prices are thought by one source to be between 42c. and 45c. per pound f.o.b. warehouse. Another source agrees, but adds that this is for large quantities and subject to fluctuation based on supply/demand and currency exchange situations

One source says that while the gap left by Asarco's exit was for the most part quickly filled, the company's extensive warehouse network was ideal for filling requirements of smaller accounts, some of which are at present undersupplied.

SODIUM CHLORATE - KemaNord, Incorporated has announced new list prices for its sodium chlorate crystal to be shipped in bulk. The new prices reflect a divison by region as follows: Northern Zone price is \$315 per ton, delivered, and the Southern Zone price is \$335 per ton, delivered.

The Northern Zone includes the states of Virginia, West Virginia, Kentucky, Missouri, and Kansas and North to the Canadian border. The Southern Zone is the territory south

These prices are effective immediately for spot customers, and as terms permit for contract customers. The new list prices replace the old uniform list price of \$420 per ton f.o.b., freight equalized

Hercules Building Sizing Agents Unit

Hercules Incorporated has begun construction of an 80-million-pound-per-year fa-cility to produce its new lines of "Neuphor"/ and "Hi-phase" emulsion sizing agents at its Hattlesburg, Miss., plant. The new plant should be operational by the first quarter o

According to a company spokesman, the new facility should provide significant new flexibility for the production of rosin-based emulsion sizing products. "Within the past year, similar new facilities were brought on proper disposal of mining byproducts. Brazil, line at the company's Kalamazoo, Mich., Chile and Greece are cited as possible enline at the company's Kalamazoo, Mich.,

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COATINGS & PLASTICS

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PRIME PIGMENTS

CADMIUM PIGMENTS - Effective July 28, Harshaw-Filtrol, Inc. increused selling prices for its cadmium sulfide and sulfoselin-ide pigments by an average of 2 percent, company spokesmen say.

Current selling prices for maximum quantitles of representative pigments are: "Cad-mium Lemon" (Yellow No. 30) at \$3.06 per pound, up 6 cents per pound from its previous price, "Cadmium Red" (Red No. 80) at \$5.40 per pound, up 10 cents from its previous price, and "Light Orange" (Orange No. 1405) up 20 cents per pound from its previous price. to \$10.00 per pound.

Although other producers have not yet announced price increases, they describe increased pressure to do so.

Producers who compound cadmium material exported by the UK and West Germany complain that the cost of imported material is up, due to environmental regulations

Sources explain that demand has stabilized since the early '80's, when demand was down due to what one producer describes as 'undue end-user concern about heavy metal content." Use of cadmium pigments is said to be growing in production of specialty engineering polymers and alloys, (particularly ABS and its alloys), in requiring high-heat stability and light fastness.

In 1984, only 4 million pounds of cadmium pigments were produced; demand was between 5.5 million and 6 million pounds, with the remainder supplied by imports. One producer expects this year's to be 0 million

There is some overcapacity both domestic and worldwide; one source believes that total domestic capacity utilization rate is less than 60 percent of nameplate. This growth is due to increased demand in high-heat engineer-

ing resins.

CADMIUM SULFIDE — Assrco Inc. has rescinded its May price increases of 10 cents per pound for cadmium sulfate, a company spokesman reports. The current list price is now \$5.00 per pound for largest-volume quantities (2000 lbs and over, f.o.b. Denver).

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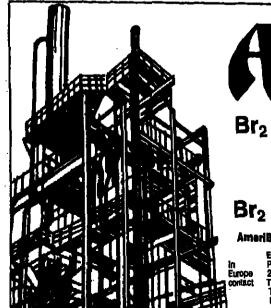
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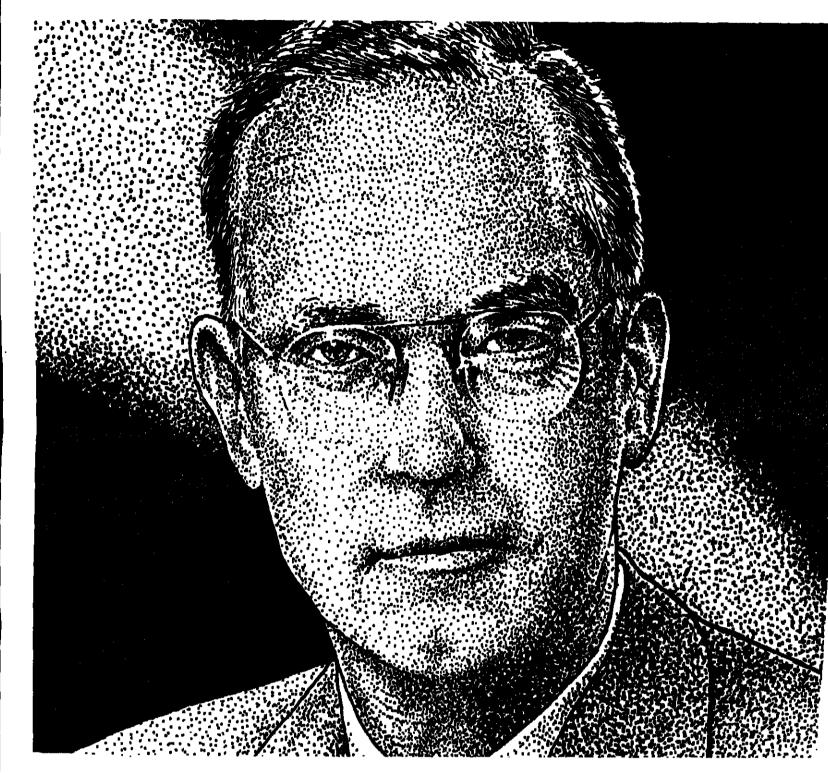
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CHEMICAL PRICES

WEEK ENDING AUGUST 8, 1986

This chemical prices section contains spot quotations and/or list prices of suppliers of chemicals and related materials on a New York or other indicated basis. The listings are based on price information obtained from suppliers. Note that posted prices do not necessarily represent levels at which transactions actually may have occurred. They do not represent bid and asked prices, nor a range of prices over the week. Price ranges may represent quotations of different suppliers as well as differences in quantity, quality and location. All matters under this heading are fully covered by copyright.

An index of weekly chemical market reports is on the back cover.

			Alumina, activated, gran., 100-lb. bgs.,	
			40,000-lb. mkn. o⊥, √korka ton	821.00
			calcined, bulk, same basis ton 100-lb. bgs., same basis ton	354.00 380.00
			hydraled, white, bulk, same ba-	
			819 ton	190.00
			100-lb. bgs., same basis , . ton Aluminum acetate, basic, dms., l.c.i.,	224.00
	5.00	-	worksb.	8.25
Celaidehyde, 99%, tanks, fri. alid. Ib.	.37	-	Atuminum chloride, anhyd., soin., 500-	
Prices 1c. higher in West. cetaminophen (see N-Acetyl-p-aminophen	ioli		600 lb. dms., d.t., t.l., works,	50
celenlide, lech, flaked, bgs, t.l., f.o.b.			frt. equatdlb. bulk, same basislb.	.50 .45%
works	1.29	-	semi-bulk bins, same basis ib.	.48
cetic acid, tech., tenks, divd. E lb. cetic anhydride, tanks, divd. E lb.	.25 .431/a	_	Atuminum chloride, comi., soin., 32°	15.00
Acetic anhydride prices 1c. higher in Wes	t.		tenks, works 100 lbs. ret. dms., c.l., works 100 lbs.	12.00
cetoscetaniide, dins., tl., divd lb.	1.29	-	non-ret. dms., same basis . 100 lbs.	20.00
cetoscet-o-anisidide, dms., t.i., dvdb.	2.70	_	Aluminum formate, dibasic, liq. 8% Al ₂ O ₂ t.l., works ib.	.65
catoacat-o-chioroaniida, dma., t.i.,			Atuminum hydrate (see Alumina, hydrate	
dvdlb. cetoacet-o-toluidide, dms., t.i.,	2.85	-	Atuminum hydroxide, dried, gel, NF,	·
divoib.	1.58	_	75-10. dma., c.l., t.l., works. 1b. Aluminum metal, 9942% or more, 50-lb.	2.75
etoscet-m-xylidide, dms., t.i.,			pigs., 30,000-lb. lots, frt.	
divd	3.33 .25	-	alid	.76
divd. Zone 2 (Calif.)(b.	.27	-	Aluminum oxide amorphous (see Alumi Aluminum paste, leafing grade,	m, Cercined).
divd. Zone 3 (W. of Flockles exclud-		_	etd.,lining, 2,400 lb. lots,	,
ing Calif.)	.27 .53	.541/2	dlvdlb.	1.40
cetopheneticiin (see Phenacetin).			lining, extra-fine, same basis ib. Aluminum phenoisulfonate, purif., 100-	1.99
celophenone, lech., tanks, i.o.b.	70	25	kilo dms t.l kilo	6.46
worksb. perfume grade, extra, cnslb.	.78 2.15	.85 -	Aluminum powder, leafing grade, std. lining, 2,400 lb, lots, divd lb. extra fine, lining, same basis lb.	3.17
Acatyl-p-aminophenol, c.l., t.l.			extra fine, lining, same basis b.	4.04
workskilo cetylene black, imp., 50% com-	5.95	6.64	Atuminum stearate, bos., c.l	1.25
pressed, 121/2-lb. bgs. c.i., t.i.			Aluminum sulfate, comi., grd., 100 lb. bgs., c.i., works, irt. equald.,	
irt. extra lb.	.98.	-	basis 17% Al ₂ O ₃ East and Guif	
100%, 25-lb. bgs., sæme ba- sis	.951/2	_	Coastston	185.00
cetylene tetrabromicie, tanks, f.o.b,			West Coast ton	217.80 146.00
works	.97	-	lro∩-free, dry, bgs., c.i. sams	
catyltributyi citrate, bulk, f.o.b.			ig., tanks, same basis	225.00
works	1.28	-	Aluminum sulfate, USP, gran dms. lb.	ZZ9.00
etyltriethyl citrate bulk f.o.b. works	2.06	_	Aluminum sulfale, USP, gran., dms. ib. Aminoacetic acid, USP, dms., 20,000	
projein, tech., tanka, worka lb.	.62	_	ibs., f.o.b. worksib.	2.12
rylamide, solid, t.i. worksib.	1.00	-	p-Aminobenzolo acid, 1,000 kilos or	•
so/n., 100% basis tanks, works ib. crylic acid, glaciai, reg., tanks,	.74	.77	more, dma., f.o.b. works - kilo	9.60
divdb.	.87	-	2-Ammo-4-chlorophenol dry and grd. 14,000 lbs. or more, frt. alid, lb	5.79
ech., tanks, frt. alld	.80 3014	- .451⁄a	Aminoethyl ethanolamine, tanks, frt	
rylonitrile-butadiene-styrene resin.	.3914	.4077	collectb	1.331/2
high-impact, nat., t.l., dms.,			N-Aminosthyl piperazine, tanks, f.o.b., frt. collectio	1.05
divdlb. medium-impact, nat., same basis io.	1.05 .94	1.09 .98	2-Amino-2-ethyl-1,3-propanedio	
1014-KTIPBCI, INSI.; 881718 0651810.	.76	.96	dms., t.l. f.o,b, works To	. 1.82
lipic scid, resin grade, bulk, hopper			\	
bgs., t.l., c.l. frt. equald	.57 .59	-		
gar USP, powd., 60 to 100 mesh.,				
dmsib. Icohol, syn. C-8 to C-10, tenks, f.o.b.	9.50	9.85		
WORKSb.	.38			
C-12 to C-13, tanks, dvd lb.	.57	.59		
C-14 to C-15, tanks, divd fb. C-16 to C-18, tanks, divd lb.	.57 . 6 0	-		
Idehyde, C-6, dms	4.10	5.70	THETERMINOLOGY	OF THE
C-7, dms	1.95 4.30	6.30	The Trianinorod	OF THE
C-10 dms	4.30	5.35	e/elphe .	./Centrigrade
ugin (see Sodium alginate.)			i alkelanasana	haricalpade
dikali blue, dry, flushed, 110-lb. dms, divdb.	3.72	3.83	AMP/American making	.c./cubic cent
Alkeli blue pylices 1c. higher W. of	V-1 E	0.00	I noint	D/completel; atured
Rockies.			enhyd./enhydrous AOAC/Association of	i.f./coat insu
Alispice Giratemalan / Honduran,	1.00	_	I II GROCINI GORGIII II	freight
ogs	1.05	-	Chemiets	.l./carload na./cans
vivi alcohol, tanka, f.o.b., Baycont,	90	_	photo sold	omi./comme
Tex	.00	-	I P Providence	one./concent p/chemically
ormore, works	5.60	,	I I arbitationicalis	ips./centipoli
Aliyi caproate, 25-lb. cns lb. Aliyi chloride, tanks, i.o.b. works lb.	3.90 .65	4.50 -	ety for Testing &	≭yst./crystali
Aliyi isotolocyznata, bots	5.40	6.90	l Métadala "	:8./cares :W8./carlons
Affiond of, artif., bitter (see Benzaldehy)			11	cyls./cylinder
Almond oil, nat. bitter, NF f.f.p.a. bolsib.	3.50	3.60	b/beta	
sweetlb.	1.24	1.50	Be/Baume	d-/dextro
Albe, Cape, cs	2.00 2.25	2.75	t bbis/barrels b.g./bets-gamma	dbi./double denat./denat
powd., cs	2.25 2.60	2.75	bgs./bage	destdist./de
	3.00	-	bis./bales	tively distil
powo., kgs lb.	9.77	6.70	bols-/bottles	di/dexiro-lee
powd., kgs	6.00		I I DANGOMINO DONK	
powd., kgs	35.00	_	b.p.l./bome phosphate	dist./distilled distr./distribu
powd., kgs		:	b.p.l./bone phosphate of lime	distr./distribu divd./deliven
powd_kgsb. Aloin, NF, omsb. Aloin, NF, omsbgs Alum. ammonium, tech. gran., bgs cl. tl. works 100 b.	35.00		b.p.!./bone phosphate	distr./distribu

•	dms., c.l., t.l., f.o.b. works . lb tanks, f.o.b. works	95 69	<u>:</u>	Spanish bgs Turkesh bgs	.94 .97
Н	o-Aminophenol, dms., I o.b. Charlotte.	_	ł	Africa delichate one dana in	.62 .60 .80 5.40
1 1	p-Aminophenol, L.I. dms., 1.o.b.	395	١ ١		27 -
П	Paleigh N.C KIO	7.15	-	Makas survivos Ib. 1	.90 _
П	p-Aminosalicylic acid, USP, 50 kilo dms. t.i	18 50	_ [Antizar a dial pant an area area	25
H	Ammonia, anhyd., fertili <i>ze</i> r, wholesau.	.,, .,			70 _
	lanks, divd. Midwosi lemi-	185.00	170 00		19
1	nals	80 00	85 00	Antimory model back of mass . b. 13	
	aqueous, 29.4% NH ₃ , annyu basis.			I (I) I ((C) I) The broken in a con-	_
1	tanks, frt. equald. E. of Rock- ieston	260 00	315 00	Animaly in the manual analysis, solid,	- 1.00
1	Ammoniacai liquor (see Animonia, aqueou	19) .		Apontory from trystor twendy, NF, bols	-
ı	Ammoniac sel, galvanizing grado, bgs . c.l., I.o.b. works 100/bs	28.60	_	Acycotherneles days 9m 15.00	
1	Ammoniac sal. white (see Ammonium Chi	oride comi	1)	Andre gom power both	
ı	Ammonium biborate, gran., dms., c.i. works	.90	-	Spring thest	0 2.50
1	Animonium biborate powder 15c. per ib.	. higher		Aromatic patreleum solvents (see Solv	o 9.25 ent. naphiha.
ı	Ammonium bicarbonate, 300-lb. lib. dms., c.t., works 100 lbs	28 00	_	pelrokenn (vomatic) Arsenic criate (see Artenedis frioxide).	
Į.	bgs., c.i 100 lbs	25.00	-	Arylid, red (see Napthol, wyld red)	
	Ammonium bichromate, photo-litho grade, gran. 100-lb. dms., i.t l.			Arkemens transfer 99%, bulk, c1, to b warehouse lb.	.42 .45
1	workslb.	2.00	-	*Aspestion (see Fa'c, fibroos)	
l	Ammonium bifivoride, bgs., t.l., worksb.	.70	_	Ancorbic acid, USP, 100 kilos, 1996 Wo 9	0.00 10.50
	Ammonium bromide, dom. NF, gran ,			Ash, black (see Danom sufficie)	
	dms., c.l., l.l., l.o.b. works . lb Ammonium chioride, white, tech.,	1.31	-	Asphalt gifsonite, (see Gifsonite) Asphalt petroleum curback, tanks, E	
-	(ine gran., bgs., c.i.,			Coast gai	- 86.
	works 100lbs. USP, gran., dms	18.00 .40	.53	emutsion, tanks, tankwagens, E. Coast	.68 -
	Ammonium citrate, dibasic, 250-ib.			steam-refined, 40-300 penetration,	0.00 -
	dms.f.o.b. worksjb. Ammonium dimolybdate, approx.	2.79	-	steep roofing grade, bulk lankwag-	
	85%, 24,000 lbs. or more . lb.	5.48	-	Aspirin, USP, cryst, powd. 250-	75.00 -
	Ammonium fluoborate, tech., drns., c.l., t.l., works, frt. equaldib.	1.79	_	lb.dms , c l., f.o b	1.95 -
	Ammonium heptemolybdate, cryst.,			10% starch granulation, white, 250- ib. dm, c l . f o b ib.	· 1.97 -
	dms., 24,000 lbs. (.o.b. workslb.	5.57	_	16% starch granulation, white, same	
	Ammonium isuryi suifate, tanka, f.o.b.			basis ib Freight equald shipt kientical quantity o	2 80 - over standardmax
4	works	.29	.32	from N.Y., Phila . Milland, Mich	Change and R
	f.o.b. Hogulam, Ore ton	72.00	-	Louis Atropone sulfato, USP, bots oz	10.00 1/0
	Ammonium nitrate, dom., fertilizer grade, 33.5% N, bulk, S.E.			CI	4.00 15
	divd,ton	130.00	135.00	Azelaic acid, tech , 50-lb bgs , t1., c.l. dlvd lb	1 23 -
	Ammonium oxalate, tech , fine. gran. 300-lb. dms., t.l., f.o.b.			Azo grange, bbls , dlvd lb	460 -
	workslb.	1.42	1.68	Azo yellow, 10 G, bgs , dlvd E, al Rockes	4.40 -
	Ammonlum pentaborate gran, bgs., c.l., worksb.	.75	_	Azo G yollow pigmont, bgs .samo ba-	2.45 -
	Ammonium pentaborate powder 20c.			516 lb.	2.40
	per Ib. higher. Ammonium persulfate, 225-Ib. dms,				
	24,000 lbs. or more, l.o.b.				
	works	.58 .561	, <u>-</u>		
	Ammonium phosphate (see Di- and n	nonoamm	onlum phos.		
•	phates). Ammonium silicofluoride, dma. c.l., t.l.,				
	workslb.	.30	14 -	Bacitracin, USP, non-storile, one billion	
	Ammonium sulfate, ig. gran., bulk, c.i., workston	80.00	90.00	units or more milion units	6.30 680 22.50 -
_	std., comi., bulk, f.o.b. works ton	60.00	70.00	Barbital, NF, 50-kilo dnis., dvd kilo Barbital-sodium, NF, 50-kilo dms.	
7	lech., bgs., c.l., t.l., works ton Ammonium sulfids, lq., 40-44% tanks,		120.00	dlvd kilo	23.00
	100% basis, frt. equaldton.	460.00	-	Barito, dry-grd., Southern, off-color, coarse, bgs , c i., f.o.b. mines fb.	.09 .11
	Ammonium sulfocyanide, tech. (see An Ammonium thiocyanate, tech., cryst.,	nmonium 1	iniocyanuto).	water-grd., white, bgs., c !	.13 -
	bas., c.l., works	1.02	-	f.o b. works ,	
	tech soin., 50%, tanks, frt. equald.,	. ด3	_	grade, c.l., f.a.b. works ton	160.00 -
	Ammonium thiosulfate, photographic,			Barium chibonato, piedp., bulk, c.l., works, iri, oquekt, [b	.25 -
0	60%, tanks, f.o.b. works to. Ammonium zirconyl carbonato, soin.,	13	-	bgs., same bosis	.25% - 510.00 -
	bulk#b.	72	-	Barlum chlorato, 100-lb. dins., 1-10	
	Amyl acetate, primary mixed isomers, tanks, divdb.	57	_	drn. lots, works	1.04
0	I Amyl alcohol, primary mixed isomers.			Barium chlorido, tech., cryst., bgs., c.t., works	470.00
U	tanks, frt. alid lb. Amyl cinnamid aktehyde, dms lb.	46 - 2.35		unhyd druma c F, samo basia ton Garium chlorido, punt, cyrst, 400 fb.	590.00
	p-tert-Amylphenol, bulk, works to	91	1.03	ding., workn,	3.78
	Amyris oil, dims). 11.50 D 10.20		Darium monchydrato, 55 lb. bgs., c1. t.l.tr b. works 100 lbs.	46.00
	USP, dms	. 3.60	4.00	CCDINAMILLED CLARGE DGS - BRILING	
	Angelica root oil, botskild	33		Borium nitrato, 100 lb bgs., 1.1.	33.00
	i Anise oii, dmskik	11.76		Works 100 lbs.	32.60
_	سير بسانته بسير مرفاء بدالن سسالة است	-		القابل بيان ويستر من الروايين والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع	1
_					

2-Amino-2-methyl-1-propanol, 95%, dms., c.I., t.I., f.o.b. works .lb tanks, f.o.b. works lb

THE TERMINOLOGY OF THE CHEMICAL MARKETPLACE

F./Fahrenheit i.e.s./free alongside ferment./fermentatic f.l.s./free fatty sold f.l.s./free from choof f.l.p.s./free from pru sic acid fib./fiber f.o.b./free on board f.p./freezing point frt./freight g-/gamma gel./gallon g.p./general purpos graf./granular grd./granular

i.b.p/initial boiling point imp./imported

N/nitrogen n-/normal nat./natural neut./neutral NF/National i No./number Nom./nomina

kga./kega i-/isavo ib./pound

o-/ortho ord./ordinary oz./ounce P/phosphorus p-/pars Pac./Pacific rac./Pacific
pf./proof
phos./phospha
photo/photogra
pkgs./packags
powd./powden
precip./precipic
prod./producer
pt./point
pulv./pulverize
purf./purffled
redist./rediabid
redis./refined
resub./resublit
SD/poscialityd

Aniso seed, Egypt, bys Spanish, bys Turkish tys Aniso ablebyte, cus, dins o Aniso the hop, thus, diod

NOTE: A unit-tion is 1 percent of 2,000 pounds of the basic constituent of pitter standard of the material.

NOTE: A unit-tion is 1 percent of 2,000 pounds of the basic constituent of the basic constituent multiplied by the unit-ton price shown in Chemical Reporter gives the price of 2,000 pounds of the material.

:	سينبيسيسين سيايات		الرجمون	_
!	Barlum oxide, grd., dms., c.l. dwd 100 bs	31,25	_	
I	tote bins, same basis, 100 lbs Barium peroxide, 700-lb. dms., c.i., t.i.	. 30.00	-	
;	works	30	-	
	dest	1.05	-	
!	Barium sulfate, USP, X-ray diagnosi:	8		
:	grade, powd., 25 kilo bgs. 10,000 kilo lots lb	584	· -	
	Barlum suilide (black ash), dms., c.i. works	1 460.00	-	
:	Basil Egyptian	88	.65 .90	
	Basil oil, Comores	. 45.00		
ŗ.	Baltery acid, t.l., f.o.b., works tor Bauxite, calcined, refractory grade		70.75	
•	8714-88% ALOs, Baltimore & Mobilemetric-ton	220 20		ı
i	Bay oil, NF, 55-60%, dmalb. Bayberry wax, bgslb	10.50 2.70	15.00 3.00	
	Bayberry wax, bgs	3.10	3.20	
•	white, slabs, 100-lb, ctna ib, yellow, bricks, 100-lb, ctna ib, yellow, slabs, 100-lb, ctna ib,	3.05 3.00	3.10 3.10	١
	Bentonite, dom., c.i. bags, f.o.b.		3.05	
	workston Benzaldehyde, NF, dms.,lb.	43.50 1.25	=_	
	tech., dms., c.l., t.l.,	.73	.83	
	the Rockies. Benzene, indust. or nitration, barges, f.	.o.b.		
	Baton Rouge, Lagal. Baytown, Texgal	70 70	-	1
	Beaumont, Tex gal. Catlettsburg, Ky gal.	70 70	Ξ	
	Chicago district	.70 .70	_	
	Clairton, Pa gal. Corpus Christi, Tex gal.	70 70	=	
	Houston district, spotgai.	70	.70	ı
Į	Wood River, IIgal, Benzene hexachloride, 99% gamma is	70 omer (see L	Indane).	
	Benzidine orange, powd., bgs., divd. b. fig., conteinere, divd b	. 4.90	8.70 3.89	
	Benzidine veliow. AAA boxdlvd ih	5 80	6.05 7.40	
	AAOA, bgs., dwd	5.95	6.20	
	Benzodihydropyrane, drns	. 12.50	11.50	1
	worksbgs., c.l., t.l., f.o.b.	55	.58	
	osrcryst., dms., ton lots same bs.	1 72	1.75	1
	Benzongum, Sumatra, cs ib. Benzophanona, N.F., 1,000 lbs. or		-	
	more, f.o.b	3.50 7.45	3.60	1
	tech, 1,000 kilos ar more, fob works	4 26	_	1
	2,2,-Benzothlazyi disulfide (see Merci fide).	eptobenzou	ılazyi disul-	1
	Benzotriazole, flake, drns., 1.000 lbs. or more, f.o.b. works lb.	6.10	_	1
	powd., dms , 1,000 lbs. or more, same basis	6.20	_	l
	same basis	9.90	_	Ì
	Soluki	.87	-	١
	ianks, frl. squaid	.80 .57	- .59	١
	tanks, frt. equald	.74%	.76	1
	works, irt. equald	2.35	6.98	ł
		1.71	1.95	1
	Benzyl scetats, dms	1.20	2.60	1
	tanka, same heefe	1.26 1.37	1.85 1.43	I
	But and the trees of the barrier barri	1.40	_	J
	tech grade II does go to the	1.34 1.32	=	1
	Benzyl benzoeto etwa	1.26 1.65	2.25	Į,
i	tanka, 1 o. b.	.69	_	ľ
*	Benzulchmonata on D.	.54 8.50	9.95	ľ
:	Benzyl formate	2.30	-	Ì
į	Benzy (appropriate land)	10.50 yi-m-crosol)		
ķ: .	Benzul salindate, dms	3.35	Ξ	(
?	Bergamot of Bergam	2.90 2.95	3.25 3.25	
	Blotin crest 500 bit for acid (see b-Oxyn	40.00 aphthoic ad	d).	
		5.50	· -	1
	b.dms. frt. equald lb.	10.00	_	1
Ŷ.	Biamulh Subcarbon Lib.	17,20	_	١,
i.		15.31	15.50	L
	Gismuri Bubnitrate NE	10.50	-	
		14.45		ļ
2		17.00	_	[,
į		15.00	15.45	ľ
	Port of all CIME	.67	-	
þ	Sois de rose of Braz. dine	.71 .20		
	food for (red 48) dine to the food for	10.75 10.75	12.00	1
	Geneineal, steamer besie	7.25 6.50	8.08 7.90	1
	inp., same basis plants ton	180,00 1	90,00	ľ
	Bone phosphate destriction	No Price	3.9	
	Sone phosphate), Borax, tech, enhyd, 99%, bge., c.l., works,, Works	9 (868 Defi	vorinated	1
	works ton	ospnate trib	asic).	1
	bulk, o.l., works ton	847.00 602.00		۱ ۹

	وبيواندنو والمرادوات			
	Borax, lech., gran., decahydrate, 991/1% bgs., c.l., works ton	237.00) -	10
	tech., pentshydrate, gran. 9944%,	192.00		0
	bulk, c.i., workston	220.00 265.00		l
	Boric acid, tech., gran., 99.9%, box.			1
	o.i., workston bulk, c.i., workston Boron trichloride, CP, 1,800-lb. cyls.,	614.00 569.00	-	l
	I WOPPe IL	3.80	_	Ca
	works	4.03	_	Ca
	Boron trifluoride, etherate, 500-lb	3.47	-	Ca
	dms., t.l., f.o.b., works lb. phenolate, 500-lb. dms., t.l., same	2.35	-	١,
	Bromine, dms., t.l., works	1.65 .87	-	'
	buk, 45,000-lb. min., works lb. purif., t.l., divd	.33 .78	.341/2	Ca
	Bromine divd., prices for dms, and bulk s 1c per-ib. higher, Bulk t.t. price	M 10 10	2164 - Boz. Ib.	
	higher for 30,000-ib, min. end	4c. to	51/20per-lb.	
	Bromochloromethere, dms., c.l., f.o.b. Midland ib. Butadiene, tanks, f.o.b. ib.	1.12		8
	I 1.4-BUTENEGIOI, (ANKE, 1.0.b., fri.	.28	.261/2	
	equald	06. 86.	-	Cal
	n-Butyl acetate, syn., tanks, frt, alid, fb. n-Butyl acrylate, tanks, frt, alid, E., . ib.	.26 .521	.28 2 –	.4
	n-Butyl alcohol, syn., ferment, banks.	.69	-	Cal
	frt. alid	.34 .36	; -	Cal
	Butyl aldehyda (see Butyraldehyde)	.70	-	Ca
	I DUTYI DONZVI Dhthalata tanka (2)			Ca
	alid	.53 .99	1.00	Ča
	Butyl cyclohexyl phthalate, tanks, divd	1.01	-	Ca
	Butyl Isodecyl phthalate, tanks,	1.85	-	Ca
	n-Butyl laciate, tanks, f.o.h. works, ib.	35 1.58	-	
	n-Butyllithium, 15% soin., 1,000-lb. lots or more, cyls., 100%			Ca
	basis, divd	15.45	-	Ca
	Butyl methacrylate, tanks, frt.	14.75	-	Ca
	Butyl octyl phthalata, tanks, divd.	.88	-	
	Butyl cleate, dist., dms., c.i ib.	.45 88	.47	5
	tanksib. p-tert-Butyiphenol, tanks worksib Butyi phthalate (see Dibutyi phthalate).	.83 .70	-	Cal
	Butyl stearate cosmetic, dms., 77 dms. or more	٠.		d-C
ŀ	Butyl stearete tech., U.I	.91 .92	.97	dŀ-(
	tanks ib. Butylamine (see Mono-, Di- and Tributyla)	.60 55.	.62 .58	di-C
	tert-Butylamine, dms., c.i., t.i., f.o.b. works	nine). 1.31	I	an.
	tanka, same basis	1.17	}	0-1
	dms. divdfb. Butylated hydroxytoluene, food, feed	8.80	8.85	Cal
	grades, c.l., t.l., bgs., divd 1b, tech., bgs., c.l., t.l., divd	1.24 1.24	1.30	Celo
	Butvraidehyde, tanks, divd ib.	.72 .29 %	-	
	Butyric acio, tanks, int. alid	.441		en de
	n-Butyronitrie, dms., c.l., divd ib.	1.20 .93	: 1	Cak
ļ	tanke, divd	.54		
				an
			[trit
			1	Calci
1	Codebas elitable and an acceptance			Calci
ĺ	Cadmium objectie, purif. cryst., 100- ib. dms., i.i., works ib.	3.73		Calcit Calcin
Ţ	Cadmium, CP, red, dark shade, bbis., 100-lb. tots, frt. alki., E. of			
		44.00		qms:
١	Rockies	11,33 9.16	16.35 12.06	Samp Samp
	Hockiss ib. ilght shade, bbls., same basis ib. medium shade, bbls., same basis.ib. medium-light shade, bbls., same ba-	9.16 10.69	16.35 12.08 15.20	Camp Camp
	Hockiss ib. light shade, bibs., same basis ib. medium shade, bibs., same basis.lb. medium-light shade, bibs., same ba- sis ib. Cadmium, GP yellow, all shades, bibs.	9.16	16.35 12.06	Camp Camp Camp
	Hockies ib. light shade, bibs., same basis ib. medium shade, bibs., same basis.lb. medium-light shade, bbis., same ba- sis	9.16 10.69	16.35 12.06 15.20 14.50	Camp Camp Camp U
	Hockies	9.16 10.69 10.26	16.35 12.06 15.20 14.50	Camp Camp Camp Syn Samp Whit
	Hockies. Ib. light shade, bbls., same basis. Ib. medium shade, bbls., same basis.lb. medium-light shade, bbls., same basis.lb. cadmium, GP yellow, all shades, bbls., 100-lb. lots, frt. alld., E. of Hockies	9.16 10.69 10.26 6.10	16.35 12.06 15.20 14.50 7.07	Samp Samp Samp Samp White Samp Samp
	Rockies b. Rockies b. Rockies b. Redium shade, bbls., same basis.lb. medium shade, bbls., same basis.lb. medium-light shade, bbls., same basis.lb. Cadmium, CP yellow, all shades, bbls., tbl. Cadmium, CP yellow, all shades, bbls., rockies b. Cadmium fluoborate, liq. conc., dms., t.l., works, frt. equald b. medium-light shade, bbls., same basis b. Cadmium-mercury fithopone, maroon shade, bbls., frt. alld. E. of	9.16 10.69 10.26 6.10 2.27 3.22	16.35 12.06 15.20 14.50 7.07	Samp Samp Samp Samp White Sans Sande Tefd
	Hockies bb. Hockies bb., same basis bb. medium shade, bbis., same basis.lb. medium shade, bbis., same basis.lb. medium-light shade, bbis., same basis.lb. Cadmium, CP yellow, all shades, bbis., 100-lb. lots, Irt. alld., E. of Hockies bb. Cadmium fluoborate, lkq. conc., dms., t.l., works, Irt. equald lb. medium-light shade, bbis., same basis bb. Cadmium-mercury fithopone, mercon shade, bbis., Irt. alld. E. of Rockies bb. Cadmium metal incorts or sticks. for	9.16 10.69 10.26 6.10 2.27 3.22	16.35 12.06 15.20 14.50 7.07	Camp Camp Camp Sym Camp Whit spe Canar Can Canar Canar Canar Canar Canar Canar Canar Canar Canar Canar Canar
	Hockies bb. Hockies bb., same basis bb. medium shade, bbis., same basis.lb. medium shade, bbis., same basis.lb. medium-light shade, bbis., same basis.lb. Cadmium, CP yellow, all shades, bbis., 100-lb. lots, Irt. alld., E. of Hockies bb. Cadmium fluoborate, lkq. conc., dms., t.l., works, Irt. equald lb. medium-light shade, bbis., same basis bb. Cadmium-mercury fithopone, mercon shade, bbis., Irt. alld. E. of Rockies bb. Cadmium metal incorts or sticks. for	9.16 10.69 10.26 6.10 2.27 3.22 4.60 1.20	16.35 12.06 15.20 14.50 7.07	Camp Camp Camp Syn Camp White special cando ca cando cando ca cando ca cando ca cando ca cando ca ca cando ca ca cando ca ca ca ca ca ca ca ca ca ca ca ca ca
	Hockies. Ib. Ilight shade, bbls., same basis. Ib. medium shade, bbls., same basis.lb. medium-light shade, bbls., same basis.lb. medium-light shade, bbls., same basis.lb. Cadmium, CP yellow, all shades, bbls., 100-lb. lots, Irt. alld., E. of Hockies. Ib. Cadmium fluoborste, liq. conc., dms., t.l., works, Irt. equald. Ib. medium-light shade, bbls., same basis. Ib. Cadmium-mercury lithopone, maroon shade, bbls., Irt. alld. E. of Hockies. It. Cadmium metal ingots or sticks, ton lots, cs., divd. Ib. Cadmium ritrate, puril., fiske 400-lb. chas., cl. I. 1, 5, b. shb. ot lb.	9.16 10.69 10.26 6.10 2.27 3.22	16.35 12.08 15.20 14.50 7.07	Camp Camp Camp Camp white special cando ca cando ca cando cando cando cando cando cando ca cando ca cando ca cando cando ca cando ca cando ca ca cando ca ca cand ca ca ca ca ca ca ca ca ca ca ca ca ca
	Rockies b. Rockies b. Rockies b. Redium-Right shade, bbis., same basis.lb. Redium-Right shade, bbis., same basis.lb. Cadmium, CP yellow, all shades, bbis. 100-lb. lots, Int. alld., E. of Rockies. Cadmium fluoborate, kq. conc., dms., t.l., works, Int. equald. Ib. medium-Right shade, bbis., same basis. Ib. Cadmium-mercury fithopone, marcon shade, bbis., Int. alld. E. of Rockies. Cadmium metal Ingots or sticks, ton lots, cs., divd. Cadmium metal Ingots or sticks, ton lots, cs., divd. Cadmium-selenide-Ribopone, orange, light shade, bbis., 400-lb. lots. Int. alld. E. of Rockies. Ib. Cadmium-selenide-Ribopone, orange, light shade, bbis., 400-lb. lots.	9.16 10.69 10.26 6.10 2.27 3.22 4.60 1.20 2.10	16.35 12.06 15.20 14.50 7.07	Camp Camp Camp Syn Camp White special cando ca cando cando ca cando ca cando ca cando ca cando ca ca cando ca ca cando ca ca ca ca ca ca ca ca ca ca ca ca ca
	Hockies. Ilight shade, bbis., same basis. Ib. medium shade, bbis., same basis.lb. medium-light shade, bbis., same basis.lb. medium-light shade, bbis., same basis.lb. Cadmium, CP yellow, all shades, bbis., 100-lb. lots, Int. alld., E. of Rockies	9.16 10.69 10.26 6.10 2.27 3.22 4.60 1.20 2.10	16.35 12.08 15.20 14.50 7.07 7.07 7.07 7.07 7.07 7.07 7.07 7	camp camp camp camp white special captor ca captor captor captor captor captor ca captor ca captor ca captor ca ca ca ca ca ca ca ca ca ca ca ca ca
	Hockies bb. Hockies bb. Hockies bb. Hockies bb. Hockies bb., same basis bb. medium shade, bbis., same basis bb. medium shade, bbis., same basis bb. Hockies bb. Ho	9.16 10.69 10.26 6.10 2.27 3.22 4.60 1.20 2.10 3.97 4.47 6.77 5.27	16.35 12.06 15.20 14.50 7.07 7.07 7.07 7.07 7.07 7.07 7.07 7	camp Camp Camp Sym Camp Sanda
	Rockies. Bight shade, bbis., same basis. b. medium shade, bbis., same basis. b. medium light shade, bbis., same basis.b. medium light shade, bbis., same basis. Cadmium, CP yellow, all shades, bbis., 100-lb. lots, Irt. alld., E. of Rockies. B. Cadmium fluoborate, liq. conc., dms., I.I., works, Irt. equald. B. Cadmium light shade, bbis., same basis. Cadmium-mercury filhopone, mercon shade, bbis., Irt. alld. E. of Rockies. Cadmium metal lingots or sticks, for lots, cs., divd. Cadmium nitrate, purif., flake 400-lb. dms., c.l., t.l., f.o.b. ship. pt.lb. Cadmium selenkie lithopone, orange, light shade, bbis., 400-lb. lots. Irt. alid. E. of Rockies. B. deep shade, bbis., same basis. B. light shade, bbis., same basis. B. light shade, bbis., same basis. B. medium light shade, bbis., same basis. B. medium shade, bbis., same basis. B. medium shade, bbis., same basis. lb.	9.16 10.69 10.26 6.10 2.27 3.22 4.60 1.20 2.10 3.97 4.47 6.77 5.27 5.27	16.35 12.06 15.20 14.50 7.07 7.07 7.07 7.07 7.07 7.07 7.07 7	Camp Camp Camp Sym Sym Camp White special caprio ca
	Hockies Ilight ehade, bbls., same basis lb. medium shade, bbls., same basis.lb. medium-light shade, bbls., same basis.lb. medium-light shade, bbls., same basis lb. Cadmium, CP yellow, all shades, bbls lb. Cadmium fluoborate, lkd. conc., dms., t.l., works, int. equald lb. medium-light shade, bbls., same basis lb. Cadmium-mercury fithopone, marcon shade, bbls., frt. alld. E. of Rockies lb. Cadmium metal ligots or sticks, ton lots, cs., dvd lb. Cadmium metal ligots or sticks, ton lots, cs., dvd lb. Cadmium shade, bbls., 400-lb. lots. frt. alld. E. of Rockies lb. deep shade, bbls., same basis lb. deep shade, bbls., same basis lb. Right shade, bbls., same basis lb. medium light shade, bbls., same basis lb. medium shade, bbls., same basis lb.	9.16 10.69 10.26 6.10 2.27 3.22 4.60 1.20 2.10 3.97 4.47 6.77 5.27 5.72 6.37 7.47	16.35 12.06 15.20 14.50 7.07 7.07 7.07 7.07 7.07 7.07 7.07 7	Camp Camp Camp Camp Camp Camp Camp Capp Cap
	Rockies Ilight ehade, bbls., same basis. Ib. medium shade, bbls., same basis.lb. medium fight shade, bbls., same basis.lb. medium fight shade, bbls., same basis.b. lb. cadmium, CP yellow, all shades, bbls., 100-lb. lots, Irt. alld., E. of Rockies. It. works, Irt. equald. Ib. medium fluoborate, kq. conc., dms., t.l., works, Irt. equald. Ib. medium fight shade, bbls., same besis. Ib. cadmium-mercury fithopone, marcon shade, bbls., Irt. alld. E. of Rockies. Ib. cadmium metal ingots or sticks, ton lots, cs., dvd. Ib. cadmium metal ingots or sticks, ton lots, cs., dvd. Ib. cadmium-selenide-lithopone, orange, light shade, bbls., 400-lb. lots. frt. alld. E. of Rockies. Ib. deep shade, bbls., same basis. Ib. cadmium-selenide-lithopone, red, dark shade, bbls., same basis. Ib. medium light shade, bbls., same basis. Ib. medium flat shade, bbls., same basis. Ib. medium shade, bbls., same basis. Ib. medium shade, bbls., same basis. Ib. cadmium-salenide lithopone, ped, dark shade, bbls., same basis. Ib. medium shade, bbls., same basis. Ib. cadmium-salenide lithopone, ped, dark lithopone, ped, dark shade, bbls., same basis. Ib. medium shade, bbls., same basis. Ib. cadmium-salenide lithopone, ped, dark	9.16 10.69 10.26 6.10 2.27 3.22 4.60 1.20 2.10 3.97 4.47 6.77 5.27 5.27	16.35 12.06 15.20 14.50 7.07 7.07 7.07 7.07 7.07 7.07 7.07 7	camp Camp Camp Sym Camp white spectors approximately appro
	Hockies Ilight ehade, bbls., same basis. Ib. medium shade, bbls., same basis.lb. medium fight shade, bbls., same basis.lb. medium fight shade, bbls., same basis.bb. Cadmium, CP yellow, all shades, bbls., 100-lb. lots, Irt. alld., E. of Rockies. Ib. Cadmium fluoborate, kq. conc., dms., t.l., works, Irt. equald. Ib. medium-light shade, bbls., same basis. Ib. Cadmium-mercury fithopone, marcon shade, bbls., Irt. alld. E. of Rockies. Ib. Cadmium metal ingots or sticks, ton lots, cs., dvd. Ib. Cadmium-selenide lithopone, brange, light shade, bbls., 400-lb. lots. Irt. alld. E. of Rockies. Ib. Cadmium-selenide lithopone, brange, light shade, bbls., same basis. Ib. Right shade, bbls., same basis. Ib. medium fight shade, bbls., same basis. Ib. medium shade, bbls., same basis. Ib. cadmium-selenide lithopone, ped dark shade, bbls., same basis. Ib. medium shade, bbls., same basis. Ib. cadmium shade, bbls., same basis. Ib. cadmium shade, bbls., same basis. Ib. Cadmium-selenide lithopone, pediow sil shade, bbls., same basis. Ib. Cadmium-selenide lithopone, pediow sil shade, bbls., same basis. Ib. Cadmium statiste, 60-16. dms., sry	9.16 10.69 10.26 6.10 2.27 3.22 4.60 1.20 2.10 3.97 4.47 6.77 5.27 5.72 6.37 7.47	16.35 12.06 15.20 14.50 7.07 7.07 7.07 7.07 7.07 7.07 7.07 7	Camp Camp Camp Sym Sym Camp whit spe Canter Carter Carter Captor
	Hockies Ilight ehade, bbls., same basis. Ib. medium shade, bbls., same basis.lb. medium fight shade, bbls., same basis.lb. medium fight shade, bbls., same basis.lb. cadmium, GP yellow, all shades, bbls., 100-lb. lots, Irt. allid., E. of Hockies	9.16 10.69 10.26 6.10 2.27 3.22 4.60 1.20 2.10 3.97 4.47 6.77 5.27 5.72 6.77 7.47	16.35 12.06 15.20 14.50 7.07 7.07 7.07 6.80 6.80 6.80 6.80 6.80 6.80 6.80 6.80	Camp Camp Camp Sym Camp White Sander refd Sander refd Sander Sand
	Rockies Bight shade, bbis., same basis. Ib. medium shade, bbis., same basis. Ib. medium fight shade, bbis., same basis. Ib. medium fight shade, bbis., same basis. Ib. cadmium. GP yellow, all shades, bbis., 100-lb. lots, Irt. alld., E. of Rockies. Ib. conc., dms., I.I., works, Irt. equald. Ib. medium-light shade, bbis., same basis. Ib. cadmium-mercury filhopone, mercon shade, bbis., Irt. alld. E. of Rockies. Ib. cadmium metal ingots or sticks, ton lots, c.s., dvd. Ib. cadmium mitrate, puril., flake 400-lb. chrs., c.l., I.I., 1.0.b. ship. pt.lb. cadmium shade, bbis., 400-lb. lots, iff. alld. E. of Rockies. Ib. cadmium-selenide lithopone, orange, light shade, bbis., same basis. Ib. fight shade, bbis., same basis. Ib. fight shade, bbis., same basis. Ib. medium shade, bbis., same basis. Ib. medium shade, bbis., same basis. Ib. medium shade, bbis., same basis. Ib. cadmium-selenide lithopone, vel, dark shade, bbis., same basis. Ib. medium shade, bbis., same basis. Ib. Cadmium-selenide lithopone, yellow, sil. shade, bbis., same basis. Ib. Cadmium-selenide lithopone, yellow, sil. shade, bbis., same basis. Ib. Cadmium-selenide lithopone, yellow, sil. cambiy, rovyel, shade, bbis., same basis. Ib. Cadmium-sulfate, 60-lb. dms., any quantity, f.o.b., ship, pt	9.16 10.69 10.26 6.10 2.27 3.22 4.60 1.20 2.10 3.97 4.47 6.77 5.27 5.27 7.47	16.35 12.06 15.20 14.50 7.07 7.07 7.07 7.07 7.07 7.07 7.07 7	Camp Camp Camp Sym

Ξ	Calcium carbide, std., generator size bulk, c.l., f.o.b., works, to Calcium carbonate, pulverized, 328	n 402-06	0 -	AUFILIALI
=	mesh, bgs., bulk, f.o.b workstor sturrles, 54% solids, same	1 34.50) -	CHEMICAL
_	basis	167.00		
-	quicklime, gran., Incl., bulk, work- ston Calcium carbonate, coated, bgs., c.l.,	87.00	-	PRICES
-	works	.074	42 .1350	LINOLO
-	Calcium carbonate precip. medium.	370.00	430.00	WEEK ENDING AUGUST 8, 1986
-	precip. dense. bgs., c.i., surface	95.00	140.00	
.341/2	treated bos. c.l., workston ultrafine, USP, bgs., c.l.,workston	185.00	170.00	Carbon Black, low structure, bulk, c.l. works
. of Rockies, 21/20per- lb.	Calcium chloride, conc., reg. grade. 77- 80%, flake, bulk, c.t.	_		intermediate-super-abrasion
51/20per-lb.	workston 100-lb. bgs., c.l., same basiston	153.00 196.00	-	bgs., c.f. works
.2614	annyd., 94-97%, fiake or peliet, bulk, c.l., same basis ton	217.00	-	ogs., c.i., worksb4050 - semi-reinforcing (SRF), bulk, c.i.
-	60-lb, bgs., c.i., same basis ton brining grade, 80-lb, bags ton	279.00 285.00	_	works
.28	Calcium chloride, liq., 100 percent be- als, t.c., t.t., barge ton 45% same basis ton	99.75 118.00	Ξ	bulk of works
-	Calcium chloride, USP, gran., 225-lb.	.90	-	Carbon black oil, barge, f.o.b. Guif re- finenes
Ξ	Calcium citrate, purif., 200-lb. dms., 10,000 lbs. or more, f.o.b., works	a 80		Carbon deutilde, t.c., f.o.b. works ton 420.00 – Carbon tetrachloride, CP, consumers,
-	dna. works	3.82 400.0D	450.00	tech., dms., c.i., i.i., int. aidib
1.00	Calcium giuconate, USP powd. L.I Ib.	1.80	-	Carboxymethyl cellulose (see CMC).
-	1,000-lb. lots, works, lb. Calcium hypochlorite, 100-lb. dms, truckloads ship.t. E. of Rock-	10 50	13,25	Green Gustemalen bas
-	les	92.40	~	Carmine, No. 40, NF, bulk, 100-lb, lots or more, divd
-	500 kilos or more kilo Calcium iodate, FCC dms f.o.b, works b.	13.75	14.50	Cears, No. 1, vellow has the
-	Calcium lodide, 50-kilo dms., 1.o.b.	5.50 23.65	- 25,65	North Country, No. 2, refined, bgs.,
-	Calcium lactate, NF, powd., pentahy- drate, dms., 24,000 lbs. or	-	20,00	Certificated has top lots the 110
- .47	more, f. o.b. works	2,00 2,10	Ξ	North Country, No. 3, refined, bgs., ton lotsb. 1.30 1.45 Powdered carnauba wax, 20 to 100
-	Calcium naphthenate, liq., 4% Ca., c.l.	2.80	-	mesh, 20c. per lb. higher. b-Carotene, in vegetable oil, semi, soild
07	t.o.b. plant, E. of Rockies, ib. d-Calcium pantothenate, USP, 100- 500-kilo lots	.85	-	suspension, 400,000 A units per gram., 33 lbs. or more. lb, 32.75 b-Carotene, liq. in vegetable oil,
.97 .62	i.o.b. irt. alid., 250 kilos or	10.50	11.50	500,000 A units per gram., 33 fbs. or more
.58	di-Calcium pantothenate, calcium chio-	8.00	8.50	A units per gram 50-(b. cns (b. 26,85 – d-Carvone, 25-lb, dms., svn lb. 48 nn
-	ride complex, feed grade, 160 grams per lb., f.o.b., frt. alkl., 500 lbs or more lb.	2.75	_ {	i-Carvone
8.85	grade, 18½% P. bulk, c.l., t.l.,			mesn, Australian, edible, same basis, c.i.f
1.30 1.30	f.o.b. works	228.QQ	- }	Australian, indust., same basis. C.I.f
.38 -	equald	62.50 71.75	- I,	alid., 160% basisb. 3.70 — Cassis, Koriniii "A" bos (b. 90 94
-	dentifice grade, same basis80 ips. Calcium phosphate, monobasic, monohydrate, food grade,	49.90	-	"B" bgs
_	bgs., c.i., t.i., works, frt.	60.50	- }	refd. deod., 5-9 dms
	anhyd., food grade, same ba- sla	54,95	- <i>l</i> 'a	dehydrated, unbodied, tanksib. 65 Castor off, acids dehydrated, dmaib. 1.10
	Galcium propionate, dms., 2,000 lbs.	62.50		ricinoleic acid
يساسان	or more f.o.b. (rt. alid , fb. Calcium shioate, hydrated, bgs., c.f., works	.50 ₁ 07	.55	ABSTOREUM, NAL., CNS
	Calorum aligate, paint grade (see Wolfaston Calornel, NF, mild powd., 100-lb. dme.,	16).		8yn., cns
16,35	Camphane chonnated, 67-59% (see Toxap Camphar, monobromated, dma.,	8.50 hene).) G	pusito potash (see Potash, causilo). sustio soda (see Soda, causilo). sdarfast oil, dms
12.08 15.20	Camphor, syn., tech., 165-lb. dms.,	3.63	3.70 C	edarwood oil, Texas, dras., cns ib. 3.50 4.00 Virginia ib. 3.70 4.20
14.50	USP, powd., 165-b. dms., 5,000	1.80 2.38		edrol, prime dms
7.07		3.50 2.50	- 6	elery seed of 1
· 	white, dass	1.50 2.00	Ce 2.25	Microse acatate butyrate, powd.,
_	Carcenta wax, crude, bgs	7.00 1.90 2.10		civd, E. b. 1.75 38% butryl content, bgs., divd, E. b. 1.69 30% butryl content, bgs., divd, E. b. 1.81
1.50	Caprio acid, comi; pure; dris	60		50% burryl cohtent, bgs., clivd. E., ib. 1.87 55% burryl content, bgs., clivd. E., ib. 1.83 Rudeler gun, pure, high vis., bgs. 24,000-lb, lots or more works.
7.30	Caprio aldehyde (aldehyde C-10) dms.,	iosi/ é	36 8	Lob Hopewell Vi
4.00	Moton, tanks, same basis, ib.	.87 .85	Cel	t.l., f.o.b. Hopewell, vs ib. 1.60 1.90 tum concentrate CeO ₂ , 50 lbs ib. 1.35 tum hydroxide 90% CeO ₂ , dms.
4.50	Caprvic acid, comi, pure tanksib.	.95 .73%	7	794 CcO. don works to 440
6.80 6.30	Capelcum (age Pepper, red). Capelcum of (see Capelcum elecresin). Capelcum elecresin, NF, from dom.,		/ Cer	ium oxide, optical grade, bgs., 60- lb. lots or more, divid b. 1.85 1.90 ri atoohal, NF; cris., cli., Li., divid. E, lb. 1.861/2 1.27 lik (see Calcium carbonaje).
5,75 8.40	NF, from African peoper, drns.	OO :-		monito flowers Municipales as its 400
3.00	1,000,000 purgency	00 18.	00 Cha	gyptian, whole
- :-	Caraway seed, Dutch, bgs	00 25. 80 53	!Chic	800 acid. crv. bbis frt. siid ib. 13 50
		3175 ~ 3375 ~		ea (sae Pepper, rad). rendio anhydride, tech,, dms., t.l.,
4.85 1.70	Motes: " " " province provinc	3125 -	Chlo	rinated paraffin, 40% chloring.
35.00°	bgs., c.l. works.	1325 - 1300 -		50% Chlorine, same basis b. 48 47/4 38 60% Chlorine, same basis b. 4814 4814
	bga, c.l. works	5		70% chlorins, resinous, 50%, 50s., c.l., divd., Zone 1lb,

CHEMICAL MARKETING REPORTER

August 11, 1986

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CHEMICAL PRICES

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WEEK ENDING AUGUST	8, 198	36	Į,
Chforinated paralifin, Zone 2 prices are 10 Zone 3 prices are 20 per lb. higher			l
ere 5a per lb. higher Chlodnated rubber, 5, 10, 20 cps., bgs,			١,
t.l., divob. 40 ops, bgs., t.l., divob. 126 ops., bgs., t.l., divob.	1.68 1.92 2.60	Ξ	
300 cps., bgs., t.l., dvd., b. Chlorine, tanks single units works,	2.75	-	Ľ
f.o.b., frt. equald ton 1 Chloroscetic acid, mono, high purity.	95.00	200.00	ŀ
flake, 99% bulk f.o.b. worksb. 2-Chloro-4-eminotoluene, tech., ilg.,	.56	-	ľ
dms., c.l., t.l., f.o.b, works . lb. o-Chloroanline, liquid, dms., c.l., f.o.b.	1.88	-	
works	1.63 1.65	-	ľ
ilaka, dms., c.i., same basis b. o-Chiorobanzaidehyde, dms., t.i.,	1.70 2.00	Ξ	ľ
works	2.45	-	ľ
lbs. or more, works, lb. o-Chlorobenzoic scid, dms. f.t.f. wks lb. p-Chlorobenzoic scid, dms., 500-lb.	3.84 3.90	3.85	ŀ
iota or more, worksib. Chioroform, tech. tanks, distr. divd ib.	1.89 .34%	2.25	ļ
tech., consumers, tanks, dvdb. NF tanks, min., consumer, 4,000	.341/2	-	ŀ
gats.divd	.351/2	-	1
modity basis, dms., t.i., f.o.b	3.06 3.15	=	
4-Chiloro-2-nitroanline, peste, 172.5 mol. wt., commodity basis,			
dms., t.l., t.o.bb. powd., same basisb. o-Chlorophenol, dms., c.l., frt.	2.25 2.70	Ξ]
equaldb. p-Chlorophenol, dms., c.l., frt.	2.00	2.40	
equaldb. Chloropicrin, coml., 1,500-th, cyls., t.i.,	1.25	1.70	Į
Chlorosulfonic acid, tanks, frt.	1.25	-	1
p-Chiorotoluene, tech., tenks, works	.181/2 1.00	-	l
worksib. Cholecalaferol, dry, 40,000,000 units per gram, kilo lots gm.	24.00	_	l
Choine bitartrate, cryst., 98% min., 50 kilo dms., f.o.b. Springfield,	8.00		ł
Moklip. Choline chloride, feed grade, 70% aqueous, t.c., t.t., divd. E ol	6.90	-	l
60% dry supplementb.	.28 .39	=	١
Choline chloride, 60% dry supplement, bulk hopper cars ib. bgs. 50,000 fbs. min ib.	.39	-	1
Choline chloride, pharmaceutical, 50 kilo, lots, f.o.b. Springfield,	.40	-	Į
Mo	5.00	-	1
50 kilo lots, f.o.b. Springlield, Mokilo. kilo. Chrome green, CP extra light, bgs	6.00	-	l
divd. E. of Rockies ib. fight, bgs., same basis ib.	1.69 1.70	<u>-</u>	١
medium, bgs., same bask b. extra deep, CP., same basks b. Chrome orange, CP, bgs., dvd. E. of	1.72 1.74	-	l
Chrome orange, CP, bgs., dvd. E. of Rocklesb. Chrome yellow CP bbis. dvd. E. of	.83	.89	Ì
Rockies	1.09	1.18	l
grd., same besis	1.18 1.25	:	ł
Chromium aceate, soin., 71/2%, dms., 590-2,000-lb. lots, works lb. Chromium fluoride, dms., t.i.,	.10	-	١
Chromium nitrate, dma., t.i., f.o.b., . ib.	.81 1.45	Ξ	
10% metal soin., 500-ib. dms. same bests ib. Chromium oxide, hydrated, 50-ib.	74	.86	1
Duna bas. c.1	8.50 1.90	2.00	
Cinnamic sidehyde, cns., dms lb. Cinnamic sicohol, 25-lb. cns lb	1.85 4.50	2.48	
Cinnamon, H2	1.05 88.00 2.60	1.10 95.00	
Citral nat. done	5.50 3.18	6.65	•
syn, 55-gal. dma. f.o.b b. Citrio scid, USP, hydrous, gran., 250- b. dma. L	1.19	-	
Citric acid, USP, anhyd., gran. 250-b. dms., t.i., del ib. Citric acid anhyde, powder bo. higher	.86	-	
Citronella oil, Ceylon, dms lb. Java, dms	2.12 4.50	2.24	
China, dms. ,	4.50 3.85 3.68	7.40	
Citronallyi acatate, dms,	5.80 6.85	_	
Civet, artif., botsb. natkio Clay bali, dorn, air floated, bgs., o.l.,	20.00 500.00		
Clay bal, dorn, air floated, bgs., o.l., Tenn. ton dom., crushed, moisture-repet- lent, bulk, c.l., Tenn. ton	49.00	-	
CABY CHINA (SOB INDOVI).	24.00	· -	
Cleaners, nachthe, 140° liash tanks., New Jorsey or New York,	, 10		
Glove isal od Indonesian, reg. dms. kilo Marianascar reg. dms. kilo Marianascar reg.	1.40 2.85 4.20	3.25	•

والمراواة بينا الهرايات المسيد والمسيد	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
CMC, technical, 98% minimum, low or			
mediumvis., bgs., 24,000 lbs., (.o.b. Hopewell, Va., 100%			(
basisb. detergent makers, f.o.b. manufac-	1.25	-]	
turing point	.84	l	
Coeltar pitch, Indust., ilq., works .ton. 2 roofing, 140-155, Federal specifica-	50.00 25	5.00	
tion RP-381 Type 1, bulk	50.00	<u>-</u> [
Cobalt acetate, dms., t.l., irt. ald lb. Cobalt carbonete, powd., dms., irt.	3.61	4.25	
alid		8.16	ı
more, ft. equaldb. Cobalt hydrate, dms., t.l., frt. alidb.	4.15 8.20 1	0.65	
Cobalt metal, 99.5-99.9%, 250-kilo. dms., t.o.b. NY, Chicago b. Cobalt naphthenate, liq., 6% Co.,	11.70	- '	l
dris., divdb. Cobalt nitrate, dris., t.l., frt. alidlb.	2.06 2.74	3.45	l
Cobalt oxide, Imp., black, 72-73%	9.51	_	I
Co	9.78	-	
dms., dwdb. Cobait resinate fused, 3% Co.,	1.35	-	
Cobalt sulfate, cryst., bgs., 10,000 lbs.	.381/2	-	
monohydrate, dms., irt. alid ib.	2.81 4.56	3.54 6.02	
Cobelt tefate, 6% Co., dms., dlvd (b. Cocifana bark, bls	2.16 .40	.45	
Cocca butter, spot	2.05 it report.).	2.10	١
f.c.b	.52 .54	.58 .83	l
Cod oil, f.o.b., Gloucester, Mass.,	6.50	-	Į
bulkget. Codeine alkefold, NF, 25-kilo lots, .kilo. 9 Codeine phosphate, USP, cns., 25-kilo	00.00	-	l
kits	40.00	-	l
Codiner oil, NF, dms	75.00 . · 8.50	7.26	۱
Copalba balsam, dmsb. Copalba oil, cns., dms	1.60 3.75	_	l
Copper scetate, monohydrate, cryst., tech., dms., t.i., works ib.	.71	.74	l
Copper bromide, (cupric) 200-lb. dms., 100,000-lbsper-year con-	; 1.34		I
tracts, worksb. Copper carbonate, 55% Cu, dark, dense, 50-lb. bgs., c.l., t.l.,	1.04	-	١
works 100 lbs. 1 light, flufty, 50 lb. bags, c.l., t.l.,	108.30	-	
Copper chloride (cupric), anhyd., c.l.,	08.80	-	
worksib. Copper cysnide, tech. dmg., 24,000-	.90	-	
S. lots or more lb. Copper fluoborate, (cupric), liq. conc., dms., t.l., works, frt.	2.30	2.62	
equald	-82	-	
dm., fri. equaldb. Copper metal electrolytic wire bars,	6.50	-	
divd., domestic, basisb. Copper naphthenate, tiq., 8% Cu.	.621/2	-	
dms., frt. alkib. Copper nitrate (cupric), purif., flake,	1.19	-	
Copper oleate, solid, 6% Cu. dms.	.4314	-	
works frt sildib. Copper oxide, black (cupric), dms., 80,000-lb. lots, worksb.	.97	-	
red(cuprous), dms., 97%, USN Type 1, (AA), 80,000-lb. lots,	1.21	-	
worksib. red, 90%, Type 2, same basis ib.	1.19 1.15	1.20	
emulston, t.l., divd	2.52	_	
Copper sulfate, cryst., pentahydrate, 99% bgs., c.l., f.o.b. works			
CP, pentanydrate, cryst., dms., i.c.i.,	46.45	-	
works	60.00	-	
works	75.10 88.30 22.00	_ 28.00	
I Coriender 8880 Moroccan	.36	.37	
Rumanian			
acid; New York ib. Com oil acid, dms ib.	.131/2 .50	.14	
tenks	.32 11.22	.40 11.49	
I CO 10010 DOMESTO, USE, DRIES, DRIES		11.43	
or more	es market r market rep	eport.) ort.)	
Slock), acid. 95%, tanks.		•	
N.Y	.13 .63	=	
tanks	.55 6 no	-	
Creosole, coaltar, grade 1, tanks	6.00 te).	6.20	
soin, 80/20, tanks, same heats, del	1.15 1.134	1.18 1.17	
m-Cresol 95-98% dms. t. (a.b. lb.	4.81	-	
tanks, same basis lb. m.p-Cresol, 99%, dms., t.l., f.o.b b. bulk, same basis		Ξ	
o-Cresol, 99% pure, dms., t.l., f.o.b.lb. bulk, same basis	87	=	
I 98% Dura, dma., t.l., f.o.b	97		

Cube root, powd., 5% rotenone, basis.	60	<u> </u>	(helli Die li
50-lb. bgs., t 1., works th. Cumene, bulk, contract, I o b lb	1314 82	1.5°.	Dath
Cumin seed, Indian, bgs 10 Cyanuric acid, dms., c1, t1 int.		137	fan
Cyclamen aldehyde, 50% min alde-	1 16	',"	Dog Chath
hyde content, dms ib 96.5%, dms	4 05 7 35 7 66	9 20	Dott
90-92° a, dms	7 85 844	451	111
Cyclohexanol tech., lanks, I o.b. ib Cyclohexanone tech., tanks, I.o.b.	52	6ů':	(beth (beth
works	.55°2 565	58/4	0.74
Cyclohexylamine, tech., tanks, works	85	-	O att
سبط سنت اندین من سیر امایین			** **
		Į	Digit
			N.N
2,4-D acid, tech., 50-lb. bgs., c.l., t.l.,			tai Dioti
works, irt. equald ib. 2,4-D butyl ester, tech., 55-gal. dms.	1,10	1 25	Di-2
c.i., t.i., works, int. equald ib. tanks, same basis ib.	1.30 1.25	-	Diot
2,4-D dimethylamine sait, t.c., t.t. works, irt. ald gal.	8.05	_	ta
Decyl alcohol, mixed isomers, tanks, divd	.32	_	Diet
perfume grade, dmslb. Defluorinated phosphate (tricalcium),	.75	-	ta Diet
feed grade, 18% P. c.l., bulk,	95.00	228.00	ta
Denatured alcohol, ethyl, CD18, CD19, tanks, divd. E gal.	1.87	_	Diet
NOTE: Tankcar sales require written auth and Tobacco Tax Division.		by Alcohol	ta Diel
Denatured alcohol, ethyl, SD2B, tanks, dvd. E gal.	1.81	_	l la
SD3A, tanks, divd. Egal.	1.76Vz 1.86	_	Die
SD23A, tanka, divd. E gal. SD23H,tanka, divd. E gal.	1.69	Ξ	Diet
SD29, lanks, divd. E gal. SD30, tanks, divd. E gal.	1.83 1.72V	Ī,	
SD35A, tenks, divd. E gal. Denstured alcohol, ethyl, brucine formula	1.88%	•	D ₁
SD40, tanks, divd. E gal. athyl. optional formula, SD40, tanks,	1.83 1.82\	-	Dig
divd. Egal. For anhyd. alcohol on above formulae, pr		2c. per gal.	Dip
West Coast divd. prices are the same	as East	ern prices.	Di
except in Idaho, Oregon and Wa- differential on tankcars is maintal	ned.		Di-i
Desoxyephedrine hydrochloride (See Ma drochloride)	etnampne	namino ny-	DH DH
Datergent alkylate, straight chain do- decylbenzone, tanks, barges,	40		01.0
f.o.b,	.45	-	Di.
c.l. warks 100 lbs. white, paper bgs., c.l.,	28.04	-	D.
works	27.43	-	DA
USP special, 100-lb. bgs., c.l.,	41.10	-	Dil
divd. New York 100 lbs. Dextrose, hydrated comi, bgs., c.i.,	46.50	-	Dir Dir
divd. New York 100 lbs. Western zone 100 lbs.	24.25 25.60	-	Dir
Discetone alcohol, acetone free, tanks, divd	.62	45.00	Di
Diacetyl, flavor grade, dms lb. Diammonium phosphate, fert. grade.	9.25	15.00	Dн
rrin. 18% N, 46% P. bulk, c.l., f.o.b. Fla. works ton	140.00	145.00	1
Diammonium phosphate, food grade, 18% N, 20% P, bulk. c.l., f.o.b.	040.00		Di
Fla. works	240.00 250.00	-	DI
Diammonium phosphato, toch., bgs., c.l., t.l., works, frt.	-n -ca		DI DI
equald	52.50	-) '"
sis	67.76	-	Bi
tanks, works	1.04 .97	-	Ď
Diarylide yellow. OT, (yellow 14), dms., frt. ald	6.20	-	["
MW 244, dms., t.l., dlvd ib. 2,6-D-tert-Butyl-p-Cresol (see Butylated	4.25		1
Dioutyi tumarata, tanka, f.c.b.		-	N.
works	.70 .61	.75 -	N
Dibutyl sebacate tenks, works to. Dibutylamine, dms., c.l., divd to.	.56 1.56	1.85	2.
tanks, same basis	1.12 1.08	-	
2-5-Dichioroaniline, flake, dma., works	.35	.37	2.
fused, dma., works lb. 3,4-Dichloroanline, tech. 88%, solid,	2.00 1.80	Ĩ	2,
dme., c.l., t.l., f.o.b. works . ib. o-Dictiorobenzene, tech., 80%, dme.,	1.48	1,57	D
c.l., t.l., dvdb. tarka, same basis,b.	.52	_	2.
tanks, same basis	.45 .64	-	
drie. Ll. f.o.b. frt equald lb.	.47 81		ļ
tanks, ilq., same basis	.51 .43	.62 .47	5
Dichlorophenoxyscatic acid (see 2.4.5)	8.30	_] 1
Lob diversity		٠.	
tenks, same besis ib. Oloyclohexyl phihalate, bgs., cl., t.i.,	1.35 1.25	-	. 0
Diayclopentadiene, high-murity 97	1.25	<u>-</u>	10
Diethanolamina, tanka, fot alle	.35	7 <u>.</u>	P
in ald		• 47	1 9
DDVP (see Dimethyl dichlorovinyl phos	phate).		I.

official carbonate and (see Darbitar)	
othyl carbonate, tankwagons, leb wors b.	1.40
funder afford	1.18 _
both, remainded to be per blower of the contact of the same of the	1.10
oth dishina the Links Lond	.80 ~
Arape	.88 .85 .274
ethyl theuren das as as	97½ _ 59 _
2 sales to the part of the par	8 _
(1 thefirst in tuburd no tech be	
dars (1,100 %) 3.1 Guiss same basis % 3.3 Offiglamen, dars (1,000 %) 1.1	0 -
	02 -
weeks	83 - .75 -
	. 80.
i-2 othýmo výt přitřaží to (sou Dioctyl přiház iothyleno glycel, řánka, dívd. E lb.	ile). .29% ,31%
iothylono glycol monobutyl ether, dm1.cl_til etd E b.	.65 -
tanks, fri alid E b. sethylgne glycot monoathyl ather,	.57 -
dms, cl. int allo Eb. tanks, fri allo Eb.	.84 - .56 -
tethylene glycol monomethyl ether, dms.cl.frt.eldb	.62 - .54 -
tanks, fri and hethylene glycol monobutyl einer ac- etato, dms , c i , divd E lb.	.80
tanks, divd E beinglene glycol mononthyl ether ac-	.72
etato, drns, cl, frt alfd E lb lanks frt alfd lb	.80 - .72 -
Drathylanetriamino, tanks, f o b. works	1.60 12
Diothylenetriaming pontancolic acid, pentasodium sali solution,	
tunk cars/tanktrucks, fit- equalizer) in.	.45 2.60 300
Digitoxin, USP, imp , bots gram Digitoxin, USP, imp , bots gram Digitoxin, lon lots lb.	2.60 300 .3212 - .62 .13
Diglycol stearate, drifts , t l. lb Dibydrazing sulfate, drifts , works lb Dibydrazing sulfate, bulk kild	1.10 125
Dihydrostroptomycin sulfate, bulk kilo. Dihydro cyncotonie, 50-kilo lots, works kilo	40.00
works. Di-isobityl ketone, tanks, divit b. Di-isobityl phthalato tanks, divit E. ib.	.60 .55 51
Di-isobulylone, fanks, f.o.h. Hous- lon b.	37
Di-isodocyi piatnalara, tanks, divd Ib Di-isononyi piatnalara, tanks, divd Ib.	.39V1 -
Ortso-octyl nzolato, tankis, divd. E. Ib. Ortso-octyl philhalato, tankis, divd. Ib.	.90 .41
Di-Isopiopaticianine, dnin , c i , ist alid	.6617 - .5872 -
tanks, some busis	1.17 -
Diamy13,3-thiodiproplimate, dms., t l., frt. alid	1.89
Dill oil, USP, dries b. Dimothyl anthranilato, dries b. Dimothyl bonzyl carbinyl acolato, 25	7.00 62 15.80 -
10. (IN 19	6.95
Dimothyl cartinato, dms, t.L. 1.0.0.	.90 -
Dimothyl dichlorovinyl phosphato, 55- gal, dms., f.o.blb.	1.60 ^{1.9}
Dimothyl othanolomina, anhyd., dms., c i., tilvd. E	1.16 1.1 1.07 1.1
Dimethyl other, narozal grado, lanks, divd	.38 -
Dimothyl philininto, lanks, 1.0.0 works	.65
Directly sebacato, tanks, f.o.b worksb. Directly suints, ret. doss., c.t., f.o.b.	2.28 . 25
WASING.	.57 .46
tanks,	1.09
Dimethyl sulfoxida, tanks, works lb. Dimethylacetamide, bulk f.o.b lb. Dimethylamine, 25% solo., tanks, iri.	0792
40% solo Lanks, frt. occaid., 100%	.63%
anhyd, tanka frt. oguald b	54V1 1.03
t.i. das	rif.
N.N-Dimethyllormanide, dms., c.l., Ll., f.o.b., worksb.	.67 .49
tanks, samo basisib. 2,4-Dinitroaniline, tons-lois, i.o.b ib. Dinitroaniline, orange toner, CP, bgs.	1.22 5.20
dwd. E. of Rockies	5,20 × ·
N.C.	.98
2,4-Dinitrophanol, 250-lb. dma., 1.0.b. Charlotte, N.C	1.95
2,4-Dinitrophenol, 250-b. dms., 1.0.b. Charlotte, N.C. B. Dinitrotoluene, mix., tech. 1.0.b. works. b. 2,4-Dinitrotoluene, dms., c.l., t.l., tanks, works. b. Dioctyl adpate, tanks, frt. alid. E. Dioctyl azatet, tanks, dwd. B. Dioctyl azatet, tanks, dwd. B. Dioctyl azatet, tanks, dwd. B.	.50
works	120
Dioctyl adipate, tanks, frt. alkf. E 15. Dioctyl azelate, tanks, divd. E b.	30
4.4 Pleasan tenks fri skill F D.	· · · · · · · · · · · · · · · · · · ·
Dipentacrythritol, bgs., c.i., it., dwd.	5. 1,48 (1).
Dipentana steam-dist, tanks f.d.b. Dipentana steam-dist, tanks f.d.b. Pla. works suifate jurpontine derived, tanks ib	25 25
Buifate turpentine derived, tarks . ib. Dip oil (see Ter acid oil)	
	20.00
Diphennya marane nyaratana dom. 1,000 kgo lota dris dkd. Diphenyi, 98,8% bga, 034	45
MONES of the State	.85

Diphenyl oxide, tech. grade, tanks . lb.	, 1,11	1.20	Epinephrine base, syn., USP, bots.		-	Ferria chloride, sewage grade, 100 pe			1
Diphenylamine, refd., flake, bgs., til., works, frt. equald	. 1.25	_	100-gram totsgram Epoxy resin, liquid, bulk tanka, divri	n ,80 1 131 1	_ .41	Cent basis, f.o.b, works, tan	k		
molten, tanks, works		-	Bolld, bgs., (.). ib Epsom selt (see Magneskim suifate).	1.2812 1	.331/2	works	84		· CHEMI
works. Diphenylguanidine, bgs., t.i., frt. alid.	7.68	-	Erythorbic acid, powd., gran., 100 fb dms., t.l. or mixed t.l. f.o.b.	.		Farrio oxalate, tech., gran., 50-lb, dm.	1.65	_	VIILIVII
Diphenyihydantoin-sodium USP,	2.52		i worka	410 4	.25	Ferric oxides (see Iron Oxides), Ferric phosphate, FCCg insoluble pow-			
dmslb. Diphenyimethane 4,4,-di-isocyanate,	, 5.00	5.60	Ester gum, gum-rosin type, dms., c.l., dwd., ll., Md., Ky., E. States,			der, dms. 10,000 lbs lb. Ferrio pyrophosphate, soluble, puril.,	1 10	1.16	PRICES
polymeric, bulk, c.f., min. frt.			Minneapolis, N.C., Ohio, St. Louis, St. Paul, Va., W. Va. Ib.	76	-	I pearls, 50-lb, dm lb.	1.11	-	"PNICE:
aid	45	_	Ester gum, wood-rosin type, dms., c.i., same basis	. 43	46	Ferric resinate, precip., 6.75% Fe. dms., ton lots int. alid lb.	.45	_	
Dipropylene glycol monomethyl ether, dms., c.l., dlvdlb.	,	_	divd	41	411/2	Ferric sulfate, partly hydrated, 100-tb. bgs., c.l., workston	141.00	_	WEEK ENDING AUGUS
tanks, same basisib. Di-o-tolyiquanidine, powd., dms., t.i.,		-	Ethyl acetoacetate done. c.l. divd. in	.411/2	421/2	bulk, works ton Farric ammonium citrte, NF, brown,	117.00	_	Glue, bone, extracted, green, july-
frt. alidib. Di-o-tolyithiourea, tech., solid, dms.,	2.92	-	Ethyl acrylate tanks fet alid	1.05 -	-	green gran, 100 lb. dms			grams, bgs., c.i
t.l., frt. alidb. Ditridecyl phthalate, tanks, divdlb.	3.11	-	Ethyl alcohol, syn., 190 pf., USP tax free, lanks, divd. E gal.		•	2,000 lb. mln., f.o.b. shipping pt	2.00	2.95	1 115 leffygrams, bgs., c.l., i.o.b in.
Diundecyl phthalate, tanks, divd b.	.59	.63 -	Ethyl alcohol, absolute, 200 pf., tax	1.65 - free prices 12c. h	nigher	2c. per pound surcharge for shipmants: Ferric-ammonium oxalate, fine gran.,	W. of Denv	er .	135 jellygrams, bgs., c.l., (.o.b jb. 164 jellygrams, bgs., c.l., (.o.b jb.
Divinyibanzana, 100% basis, tanks works	2.75	2.60	than 190 of., tax free. Ethyl alcohol, fermentation, tanks,			250-lb. dms., t l., f.o.b. works. E	49		192 jellygrams, bgs., c.l., f.o.b lb. 220 jellygrams, bgs., c.l. f.o.b ib.
dms, 100% basis	3.00 .76%	2.70	f.o.b. works	ata tav Incantiuse	28 (Ferric hydroxyethylene dieminatri-	.42	-	i Giue, hide,
Dodecenyl succinic anhydride, dms., c.i., t.i., divdib.	-	_	Ethyl p-aminobenzoste, NF (see Penzo	cohol, ethyl).		acetic acki, industrial grade, sodium salt, soln., 4.5% Fe,			108 jellygrams, bgs., t.l., f.o.b jb. 135 jellygrams, bgs., t.l., f.o.b ib.
Dodecylbenzene (see Detergent Alkyla Dodecylphenol, tanks, min. frt. alid.	te).	_	Ethyl bromids, tech., 98%, dms., c.l.,	1.35 1.1	50	l.c., t. l., f.o.b. works ib, agricultural grade, sodium salt solu-	.65	-	164 jeliygrams, bgs., t.l., f.o.bib. 192 jeliygrams, bgs., t.l., f.o.bib.
Éb.	.48	.53	Ethyl butwate done	.76 -	- 50	tion, 5% Fe, t.a., t. t., f.o.b.	.64	_	222 jellygrams, bgs., t.i., f.o.blb. 251 jellygrams, bgs., t.i., f.o.blb.
Dyes, coaltar, certified colors for food, drugs and cosmetics, 100 ib.			Ethyl cellulose, standard vis., 7 cps. bgs., t.l., frt. equald. E		JU	Ferrous fluoborate fig. conc., dms., t.l., works, frt. equald lb.	.04	-	263 fellygrams, bas., t.l., f.o.b., lb.
and over, irt. prepaid or alid Blue, FD&C. No. 1		22.60	standard vis., 10, 20, 45, 100 cps., t.l., frt. aquald. E		-	Ferrous diuconate, NF, til, worke Filin	2.25	_	315 jellygrams, bgs., t.l., f.o.b ib. 347 jellygrams, bgs., t.l., f.o.b ib.
No. 2		29.22 65.00	I MBQIUMVIS., 50, 70, 100 cmg +1 fet	-	.22	Ferrous naphthenate, IIq., 6%, Fe. dms., dlvd	1.17	_	379 jellygrams, bgs., t.l., f.o.bb. 411 jellygrams, bgs., t.l., f.o.bb.
Red, FD&C, No. 3	24.00	24.50 7.85	equald. E		•	remous suitets, moist, bulk, t.l. (.o.b.	30.00	_	444 jellygrams, bgs., t.l., f.o.b ib. 477 jellygrams, bgs., t.l., f.o.b., ib.
No. 6	6.45	6.75	USP 10.20,45,100 bgs., t.l., frt.		-	works bulk, t.l., f.o.b.	145.00	150.00	Giutamic acid, 991/2% dms., 100-lb.
and cosmetics, 100-lb, lots			VSP (medium) 50.70.100 bos. (1.	4.59 4.	69	monahydrate, gran., bulk., t.l., f.o.b. works			lots, frt. alld
divd. Green, D&C, No. 5		-	Ethyl chloride, tech., cyls, frt, alid, th	· 4.51 -	- 2812	USP, powd., 400-lb. dms lb. cryst., 250-lb. dms lb.	170.00 .49	180.00	tanks, dlvd
No. 6	18.85	-	tanks, frt. alld	24 .	26%	Fir oil, Canada dmsb.	.61 10.20	-	Syn. 98%, tanks divd lb. Syn. 99.5%, tanks divd lb.
No. 17	38.90 38.25	-	Ethyl othenolamines, mixed dms. (i divd E ib			Siberia, dms	8.75 ,29	.75	Glycine (see Aminoacetic acid). Glyceryl gualacolate. 100-ib. fib. dms.
No. 22	. 12.45	-	lanks, divd. E	1 16	_	kettle-bodied, tanks	.32 .34	36	(,0,b, , , , , , , , , , , , , klin
No. 33 (b. Yellow, O&C. No. 7 (b.)b.	48.95	-		408 4	- .75	tanksb. Fishmeal, dom., menhaden, 60%	.26	Ξ	Glycolic acid (see Hydroxyacetic acid) Glyoxal 40% soin., bulk, tanks,
No. 8	20.55	Ξ	2-Ethylhexolc acid, dms., c.l., t.l., divd. E	62		Protein ard., bulk, f.o.b. At-			divd
No. 10	35.25	48.85	tanks divd. E	• -	-	lantic port. ton	295.00 290.00	Ξ	Celli, dmsib. Israeliib.
Dyes, coaltar, for general use in cloth and paper dyeing (by Color in-			mixed, tanks, int. alid. E ib.	.79.5 -	: 1	imp., Chilean, 65% protein min., bulk, c.l., t.l., ex whse., f.o.b.			Graphite, amorph, powd., bgs., dms.,
Oex Name), f.o.b, works A Bit 1 Bite black ex. cooc	E 75		Ethyl look of syn. 55-nel dos ib	8.25 -	- }	Atlantic and Gulf portston. Fluoboric acid, dms., 11., works, frt.	285.00	~	ex whse
Dyes, A BI 9 Blue 2G ib. A BI 45 Alizarine Blu SAP 150% . ib.	5 40	-	Elhyi iinalyi acetate, syn., 55-gal. dmsib.			equald	.70	-	ex whise
A BI 90 Alizarine Br. Cv G III.	14 12	Ξ	I ⊏INVI Memacrylaio, lanks, frt.		.	delvd	.57	.84	dris. ex whse
A BI 113 Navy 5R lb. A Gr 16 Gast 2G 333% lb.	22 12	-	n-Ethyl morpholine, dms., t.l., frt.		·	No. 12, bulk, same basis lb. No. 22, bulk, same basis lb.	.68 1.05	.74 1.14	1 wn90
A Or 7 11	4.00	-	alid	2.00- 1.92 -	. {	No. 113, bulk, same basis ib. No. 114, bulk, same basis ib.	.89 1.02	.931/2 1.08	Graphite, amorph., cryst., 97% and up, powd., bgs., dms., ex
A Or 10 Wool Or G	4.00	-	n-Ethyl-a-naphthylamine, dms., works	1.04 -	ı	Fluosificic acid (see Hydrofluosificic acid). Formaldehyde, 37% methanol free (un-		1.00	Graphite, fiske, No. 1, 90-95%, bgs.
A R 2G lb. A R 14 Azo Rubine 133% lb.	2 40	_	Ethyl parathion (see Parathion abus			inhibited) divd., gulflb. 44-45% (1% methanol) tenks,	.080	.0905	dms., ex whse
AR 18 Scarlet 4R Conc. Ib. AR 88 Fast Red A. Conc. Ib.	5.45	-	Ethyl silicate dist (see Tetraethyl orthosethyl silicate, 40% available SiO ₂ .	silicate).	ì	divo	.1015	.1065	whse
	8.85 4.50	Ξ	dms., t.l., f.o.b. worksb. tanks, f.o.b. workslb.	1.45 1.4 1.39 -	16	37% (inhibited 7% methanol, divd	.0945	.1025	Cirease of (See Lard of)
AV 17 5BNS Conc	9.75 12.22	-	i N-Einyl-m-lowkine, tech., iiq., oms		j	tanka, divd.	.1055	.1060	Gualacol, tech., 500-lb dms., 24,000lb. min., f.o.b. Wallingford,
A Y 23 Tartrazina Ev Cono	5.69 6.18	-	c.i., i.o.b	3.18 - 3.10 -	,	Formamide, tanks, f.o.b	.39	-	Conn
BBr 4 Bistoark Brown D En. Com III.	16.40	=	N-Ethyl-o-toluldine, drns	2.85 2,9	v j	Formic acid 90% tanks, (.c.b.		-	Guar gum, edible, bgs., c.l., f.o.b.
	4.42 9.55	=	25 lb, dms., 500 lbs. or more ib.	13.50 ~ 13.75 ~	- 1	works	.361/2 .511/2	Ξ	snip t, pt
B Gr 4 Malechite Green Crystal ib. B V 1 Methyl Violet Crystals ib.	6.90 6.80	-	100 lb. dms., less than 500 lbs lb.	14.00 14.5	٠ I	Fructose, cryst., 18,000 kilos or more, dms	.9Q	1.03	Indust., bgs., high viscosity, c.i., same basisb.
BY 2 Bond Yell SEA 1600/	10.95 10.10	-	N-Ethylaniline, dms., c.l., t.l., f.o.b. works	1.66 -	- 1	Furnaric acid, food grade, bgs. t.l., frt, equald. E	.751/2	.771/2	
Ex. Cone. 300%.	4.62 9.25	-	tanks, same basis	1.68 -	ļ	tech. grade, bgs., t.i., f.o.b. frt. equald		.621/2	
D Bik 22 Fast Black GD	9.45	-	Tex. b.	.22 .2		Furfural, tanks, f.o.b. Cedar Rapids, lows, and Belie Glade, Fig. lb.	75	.UZ12) 2.1
Past Black GR 150%	2.85 4.28	-	Ethylene brassylate, dms	.18 .18 16.00 18.20	814 J	Furfuryialcohol, tanka, f.o.b, Memphis,	.75	_ ,	1 573 .
D Gr 28 Resis Fort Count BHNB	7.23	_ '	WORKS	1.30 1.30		Terin. and Omaha, Neb, ib.	.72		<u>#</u> : #: -
DR 248 EV Cons Green GL Ro.	9.15 7.98	- 1	Ethylonediamine dihydriodideib. Ethylonediamine teiraacetic acid, te-	7.55 9.25	⁵				
DR 31 Britisht - Red 12B Cond. b. DR 80 Fast Hed 8BLN b. DR 81 Paper Red 8BLP b. DR 251 Fast Scalet AV	6.16 6.15	-	trasodium salt, soln., t.c., t. t.,	.361/2 -	-	C ·		1	Heliotropin, dms
DR 251 Fast Scarlet AV	8.85 6.25		Ethylene dibromide dms., o.l., frt., equaldib.		.				Henbane leaves, bls
WS. Conc. 1 Eco. De WSP Liq ID.	2.47 11.25	-	tanka frt equakib. Ethylene dichloride, tanka, f.o.b.	.38 .46 .32 .42	ž· ,				mont, Tex
1269 Taper Yell 3GX		-	worksib. Ethylene glycol, Indust., tanks, Irt.	.17,		G salt, dms., frt. alid. 100% basis lb.	2.30		98%, tanks, f.o.b. Houston, Texgsl 1,
D Y 11 Stilbene Yellow GA, Ex.	4.69 1.75	-	alki	.31 –	- 10	Garlic oli, dms., Egyptian kito	23.05 35.00 10	5.00	Heptenoloecid, syn., tenke, f.o.b
D Y 41 Fast Vellow BOX GA. EX.	3.03	-	i ieńks, divd. E ib.	411/2 -	. ['	Gelatin, edible, 100 AOAC test, dins., LU., divd	1.60	1.76	Hexanydrophthalic anhydride, tech, dma. Lt.L. Lo.b. worke
DY27 Reels English Francisco	9.75	_	Ethylene glycol monoethyl ether, tanks, divd. E	.51 -	.[125 AOAO test, dina., I.L ib. 150 AOAC test, dina., I.L ib.	1.75 1.85	1.86 1.95	Hekamethylenetetramine, gran. bgs., c.t.t.l., works to
Dis R 1 Scenter DA YEROW L.S.G B.	14.40 4.28	- 1	Ethylene glycol monomethyl ether, tanks, dwd. E	.34 -	- 1	175 ADAC test, dms., l.t.l lb. 200 AOAC test, dms., l.t.l lb.	1.95	2.05 2.15	gran. dms., c.L., Ll., works Ib
USY 3 Valor D	21.00 3.65	=	etate, tanke, irt. alid. E lb.	.8414 -	1	226 AOAC test, cline., I.I.I lb.	2.10	2.25	pdr. bgs., c.l., t.l., worksb
UNIO 3 Oranga Cara	8.84 4.91		Ethylene glycol monoethyl ether so- etate, tanks, ft. alid., E b. Ethylene glycol monomethyl ether ac-	.55% -		276 AOAC test, clms., Lt.L	2.30	2.48	Hexans indust, tanks, worksgel. 1.0 95%, tanks, f.o.b. Houston,
U8V14DALE 00 VIV	3.77	· _	Ethylene glycol monomethyl ether ac- elate, tanks, irt. alid. E ib.	.43 - .36 .45		Bentien violet (see Methyl roseaniline chloric		2.65	Tex
	7.85 17.25	-	Ethylene oxide, tanks f.o.b	.35 .45 e).	_{ `	net., 90-92%, dms	3.50	I 77	Hexyl alcohol, mixed faomers,
102 8lue GFDA 300%	10.05 22.80	-	Eucalyptol, NF, dms. Portuguese .klio.	7.50 -	G	leranium of, Moroccan	1.00 27		p-Hexyl methacrylate, dms., c.i.,
VUII.leda OID.	4.10 5.50	<u> </u>	Eucalyptus oit, Portuguess NF, recti- fied, 70-75%, dms kilb NF, rectified, 80-85%, dms kilo	5.50 - 6.25 -			1.00 38 1.00 65	00	works. b. texylene glycol, tanks, divd. b. 6
V Blk 25 Oilve TA Paste	5.85		Eugenol, USP, dms klio	7.85 -	<u>.</u> [Turkish (see Palmarosa off).	1.00	7) I	riexylresorginol USP dris. 25-lb. lots or more, frt. alid 80.0
		·			- G	eranyi ecelate, dms;	L 9 5		Homatropine hydrotromide, USP, 10- 100-oz, lots, bots.; oz. 10.2
		- 1			G	eranyi formata, syn., dms 6	.60 .95	<u>'</u>	Hometropine methylbromide, USP, 10- 250 oz. lota, bota oz. 9.7
		• 1			g	lisonite, g.p., bulk, c.l., f.o.b. Bo- nanza, Utah ton 180	T 10	j.	Horshoundherb, bld
Some		·i			ـ ا ل	selects, same basis ton 180	.00	' ' '	8/10
Spirit, tech., 95-99%, dms., t.l b. Spirating, syn. anhyd., USP, 80-04	7.00		Fennel oil, sweet, USP, cns kilo	9.00		Chinese sliced	.65 .55	70	55-gal. dims., t.l., iri, alid ib. 1.6 Hydrodic edd, purif., 47%-57%, 2
Ephedrine Inverse	1.25		Fornal good Freth	.33 - .80 .82		indian	00 - 00 85.	- '	Phys. f.o.b. works
	18.25	40786	indian, hi. Ferugreek seed, Indian, bgs	25 .32	i ai	riger plearesin, NF, bots	00 -	ie 🗀	tanke, (.o.b. zone 1 lb
TO BUILDING LIGHT		40.25	dina, c.l., works 100 lbs.	36.00 -	: I G	uconic acid teich. 50% dms., c.l., t.l.,	50		Hydrobromic scid. 48% dms., c.l. 11
ess than 1,000 kilos kilo kilo kilo kilo kilo kilo kilo kilo	43.00 86	45.26	cins., c.i., works	9.10 -	;T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	44		f.o.b
	-1.		The Property of the	ing and the second	NOT THE OWNER OF THE OWNER, THE O	Allgiat 11 10as			L. MAUY PUBLIC DISCOUNTSD
					中海				
							主义作品		
	14	W. W.			學學				
一种一种一种一种一种一种一种一种一种一种一种一种一种一种一种一种一种一种一种		高速到了							
	The Control		"我们是我们是)	

_							
		Ferriochloride, sewage grade, 100 per	_				
)	.7.	cent basis, f.o.b. works, tank			CHEM		
1/2	1.41 1.33½	workston	178.00				.
74	1.0072	Ferric nitrate, cryst., dms., t.l., f.o.b. fb.	.64	-		88 /	/
		Ferrio oxalate, tech., gran., 50-lb. dm., f.o.b. works	1.65				
		Ferric oxides (see Iron Oxides).	1.03	-			
	4.25	Femic phosphate, FCCa macluble paw-					
		der. oms. 10.000 lbs lb.	1.10	1.16			
		Femo pyrophosphate, soluble, purif.,					
	- 1	pearls, 50-lb. dm lb.	1.11	-	PRICE		
]	Ferric resinate, precip., 6.75% Fe.	40				
	.46	dms., ton lots frt. alld lb. Ferric sulfate, partly hydrated, 100-lb.	.45	-	WEEK ENDING AUG	1070	
	.411/2	bgs., c.l., works ton	141.00	_	WEEK ENDING AUGU	JST 8, 1	986
2	.42%	bulk, works ton	117.00	_			
	-	Famic ammonium citrte, NF, brown.			Glue, bone, extracted, green, jel	ly-	
	-	green gran. 100 lb. dms			grama, bgs., c.L	b	-
	- 1	2,000 lb. min., f.o.b. shipping			85 jellygrams, bgs., c.i., f.o.b.	b86	-
	_	pt	2.00	2.95	135 jellygrams, bgs., c.l., (.o.b (b78 b77	_
B 12c	. higher	Ferric-ammonium oxalate, fine gran.	אוושכן וסי.יי	91	164 jellygrams, bgs., c.l., f.o.b	b	_
		250-lb. dms., t.l., f.o.b. works.			192 jellygrams, bgs., c.i., f.o.b k	b87	_
	1.28	E	.42	_] 220 (ellygrams, bgs, c.l. f.o.b ii	93	_
evitre		Ferric hydroxyethylene diaminetri-			Glue, hide,		
d).		acatic acid, industrial grade, ecdium salt, soln., 4.5% Fe,			106 jellygrams, bgs., t.l., f.o.b it 135 jellygrams, bgs., t.l., f.o.b it		-
		l.c., t. l., f.c.b. works b,	.65		164 jelygrams, bgs., t.l., f.o.b IE	85 90	-
	1.50	agricultural grade, sodium salt solu-	.03	-	1 192 (ellygrams, bas., t.l., f.o.b.,	25	_
	_	tion, 5% Fe, t.a., t. t., f.o.b.			222 ellygrams, bgs., t.i., f.o.b., lb	. 1.00	_
	1.50	WO/KSh	.64	_	1 251 jelivarama, bas., j.l., j.a.b., In	1 05	_
		Ferrous fluoborate liq. conc., dms., t.l.,			263 fellygrams, bgs., t.l., f.o.b., lb	. 1.10	-
	- 1	works, frt. equald Ib. Ferrous gluconate, NF, t.i., works E.ib.	.64	-	315 lallygrams, bga., t.i., f.o.bib	1.15	-
	4.22	Ferrous naphthenate, IIq., 6%, Fe.	2.25	_	347 jallygrams, bgs., t.f., (.o.b ib	. 1.20	-
	-VILL	amsarva in	1.17	_	379 (ellygrams, bgs., t.l., í.o.b ib. 411 jallygrams, bgs., t.l., í.o.b b	1.25	-
	-	remous sullets, moist, bulk, til to b	••••	_	444 jallygrams, bgs., t.l., 1.o.bib	. 1.30 . 1.35	_
)	WORKS ton	30.00	_	477 jellygrems, bas., t.l., f.o.b., lb.	1.40	=
	-	haptahydrate, gran., bulk, t.i., f.o.b.			Giutamic acid, 891/2% dms., 100-lb.		_
	4.69	workston monchydrate, gran., bulk., t.l., t.o.b.	145.00	150.00	lots, frt. alid kilo	8.65	-
		Works	170.00	180.00	Glycerine, nat., reld., USP, CP 991/2%		
	-	USP, powd., 400-lb. dms, lb.	.49	100.00	tanks, divd ib. USP, CP, nat. 96%, tanks, divd ib.	.891/2	-
	281/2	Cryst., 250-Ib. dms	.61	_	Syn. 96%, tanks divd	.87% .89%	-
	.26%	Fir oil, Canada dms	10.20	-	Syn. 99.5%, tanks divd	.09 W	-
	_	Siberia, dms	8.75	.75	Glycine (see Amingacetic add).		_
	-	kettle-bodied, tanks	.29	-	Glyceryl gualacolate. 100-lb. fib. dms.		
	- [light, cold-pressed, dms., c.t lb.	.32 .34	36	(,0,b, klir	14.50	-
	4.75	(anksh	.26	Ξ	Glycolic acid (see Hydroxyacetic acid)		
	4.73	Fishmesi, dom., menhaden, 80%			Giyoxai 40% soin., bulk, tanks, divdb.		
	-	Protein ard., bulk, f.o.b. At-			Grapetruit oil, Fie., dms. lb.	.44½ 2.75	-
	-	lantic port ton f.o.b. Guif port	295.00	-) Call., dms	2.25	Ξ
5	- 1	imp. Chilean, 65% protein min.	290.00	-	I ISTAEN	2.25	_
Þ	_	bulk, c.l., t.l., ex whse., f.o.b.			Graphite, amorph, powd., bgs., dms.,		
		Atlantic and Gulf ports, too.	285.00	_	ex wase	.16	.40
	- 1	riuopone acid, dms., 1.l., works, trt.			cryst., 88-90%, powd., bgs., dms., ex whise	90	••
	i	equald	.70	-	Graphite, crysl., 90-92%, powd., bgs.,	.30	.60
	-	Fluorocarbon, No. 11 bulk, tanks,			dms., ex whse	.40	.75
	_ 1	No. 12, bulk, same basis b.	.57 .68	.64 .74	95-96% powd , bga., dms , ex		
	1	No. 22, bulk, same basis lb.	1.05	1.14	wh9e	.60	.90
		No. 113, bulk, same basis ib.	.89	.931/2	Graphite, amorph., cryst., 97% and up,		
	- (No. 114, bulk, same basis lb.	1.02	1.08	powd., bgs., dms., ex whseb	00	
	_ [Fluosificic acid (see Hydrofluosificic acid). Formaldehyde, 37% methanol free (un-			Graphite, flake, No. 1, 90-95%, bgs.,	.80	1_20
	_	inhibited) divd., gulf	000	0005	Ome., ex whee	.65	.75
	1	44-45% (1% methanol) tenks,	.080	.0905	[No. 2, 90-95%, bgs., dms., ex		
	l	divdlb	.1015	.1065	r wase	.65	.75
1	1.46	37% (inhibited 7% methanol			Grease (See Olls, Fats & Waxes market re Grease oil (See Lard oil).	sport)	
		divd	.0945	.1025	Gusiacol, tech., 500-lb dms., 24,000lb.		
	1	37% (inhibited 11-15% metheriol) tanke, divd	1055	1000	min., f.o.b. Wallingford,		
	- [Formamide, tanks, f.o.b	.1055 .39	.1060	Connb.	2.70	_
9		Oms., same basis b.	.44	-	NOTE: Purified grades are 10c. higher		
-	ا ۱	Formic acid 90% tanks, f.c.b.			Guelacwood oil, dms b.	2.50	-
	- 1	works	.361/2	- í	Guar gum, edible, bgs., c.l., f.o.b. ship't, pt	.50	.75
	- L	95% dms., c.l., works fb. Fruotose, cryst., 18,000 kilos or more,	.51V s	-	Indust., bgs., high viscosity, c.l.,	.50	.70
14		dmsb.	.gg.	1.03	same basisib.	.50	.85
	11	Fumanc acid, food grade, bgs. t.l., frt.		****			
	-	eguald. E	.751/2	.771/2			<u>سين کې</u>
	-	tech. grade, bgs., t.i., f.o.b. frt.		f			_ _
	1	equaldfb. Furfural, tanks, f.o.b. Cedar Rapids.		.621/2			
	.23 ' .1814 .	lows, and Belie Glade, Fig. 1b.	.75	_ /			
18.		Furfuryialcohol, tanka, f.o.b, Memphis,					:
		Terin. and Omahe, Neb ib.	.72	- [■ /■communication		i
	305 •		_	/			;
9 .	25			1			
				Ţ	Heliotropin, dmsb.	8.00 8.	25
-	- 11			1	Hemiock of (see Spruce of).	u- 0.	
	الير				Henbane leaves, bis	.55	-
	46			ı	Heptane, Indust., tanks, f.o.b. Beau-		
•	~~ { ₁				mont, Tex gal.	1.07 -	- !
	4744 7	No. 0. doz. 41 -04 40004 1 -1- 0).	98%, tanks, f.o.b. Houston,		

WORKS	141.00	_			
rik, works ton ramonlum citats, NF, brown,	117.00	-	Glue, bone, extracted, green, jet		
green gran. 100 lb. dms			i Qrams, bgs., c.l.,	ib. –	
2,000 lb. min., f.o.b. shipping			i 85 jellygrams, bgs., c.i., f.o.b.	ib. 88	ð
36	2.00	2.95	115 jellygrams, bgs., c.l., i.o.b.	b78	
ound surcharge for shipmants \	M. of Deni	/9/	135 ellygrams, bgs., c.t., (.o.b)	b77	
monium oxalate, line gran., 250-lb. dms., t.i., f.o.b. works.			164 jellygrams, bgs., c.l., f.o.b 192 jellygrams, bgs., c.l., f.o.b	b79 b87	
b.	.42	_	220 jellygrams, bgs. c.l. f.o.b ii	b93	
(droxyethylene diaminatri-	,72	-	i Glue, hide,		
cetic acid, industrial grade.			108 jellygrams, bgs., t.l., f.o.b It	.c .c	
odium salt, soln., 4.6% Fe,			135 jellygrams, bgs., t.l., f.o.blk	85	
.c., t. l., f.o.b. works ib, tural grade, sodium salt solu-	.65	-	164 jellygrams, bgs., t.l., f.o.blb	90	
ion, 5% Fe, t.a., t. t., f.o.b.			192 jellygrams, bgs., t.l., f.o.bit 222 jellygrams, bgs., t.l., f.o.bib	95	
works lb.	.64	_	251 jeliygrame, bgs., t.l., t.o.b ib	1.00 1.05	
uccorate ilq. conc., dms., t.i.,			263 jellygrams, bgs., t.l., f.o.b., lb	. 1.10	
works, frt. equald Ib.	.64	_	315 Blygrams, bos., t.i., f.o.b., ib	1.15	
luconate, NF, t.I., works E.Ib. naphthenate, IIq., 6%, Fe.	2.25	_	347 jellygrams, bgs., t.l., (.o.b ib	. 1.20	
3M8., divd	1.17	_	379 jellygrams, bgs., t.l., f.o.b lb 411 jellygrams, bgs., t.l., f.o.b b	. 1.25	
Bulleta, molet, bulk, t.l. (.o.b.	••••		444 jellygrams, bgs., t.1., 1.o.blb	. 1.30 . 1.35	
workston	30.00	_	477 ielivarens bas il fob ib	1.40	
ydrate, gran., bulk, t.l., f.o.b. workston	1/5 00	450.00	Ulutamic acid, 991/2% dms., 100-lb	_	
iydrata, gran., bulk., t.l., f.o.b.	145.00	150.00	l kots, int. alid kild	8.66	
WORKS 10n	170.00	180.00	Ciyosrine, nat., reid., USP, CP 991/2% tanks, divd	004	
owd., 400-lb. dms lb.	.49		USP, CP, nat. 96%, tanks, divd ib.	89% 87%	
250-ID. dms	.61	-	Syn. 96%, tanks divd	801/	-
inada dms	10.20		1 5yn. 99 5%, tanks divd	91	•
efd., alkali, tanks, c.llb.	8.75 .29	.75	Grycine (see Aminoacetic acid).		
bodied, tanks	.32	36	Glyceryl gualacolate. 100-lb. fib. dms		
Old-pressed dms., c.llb.	34	_	Glycolic acid (see Hydroxyacetic acid)	14.50	
b.	.26	_	Glyoxal 40% soin., bulk, tanks		
al, dom., menhaden, 60% protein grd., bulk, f.o.b. At-			} d(vd	4414	
antic port ton	295.00		(Grapeiruli Oli, Fie., dris	2 75	•
. Gulf port ton	290.00		Calli., dms		
Chilean, 65% protein min.,			Graphite, amorph, powd., bgs., dms.,	2.25	
bulk, c.l., t.l., ex whse., f.o.b.			ex whse	.16	
Atlantic and Gulf portston. acid, dms., 1.I., works, irt.	285.00	-	cryst., 86-90%, powd., bgs., dms.,		
iqualdin	.70	_	A Wilea	.30	
rbon, No. 11 bulk, tanks,	.,,	•	Graphite, crysl., 90-92%, powd., bgs.,		
leivalb.	.57	.64	dms, ex whseb. 95-96% powd., bgs., dms., ex	.40	
bulk, same basis b.	.68	.74	whaeb	.60	
bulk, same basis lb. I, bulk, same basis lb.	1.05	1.14	Graphite, amorph., cryst., 97% and up.	.00	
, bulk, same basis lb.	.89 1.02	.931⁄2 1.08	powd., bgs., dms., ex		
acid (see Hydroflupsificic acid).		1.00	Graphic floke No. 5 00 050	.80	1.2
yde, 37% methanol free (un-			Graphite, flake, No. 1, 90-95%, bgs., dms., ex whse	85	-
hibited) divd., gulf ib. 5% (1% methanol) tenks,	.080	.0905	No. 2, 90-95%, bgs., dms., ex	.65	.7
vdb	.1015	.1065	whse	.85	.7
(Innibited 7% methanol	.1010	.1005	Grease (See Olls, Fats & Waxes market n	sport)	
lvd	.0945	.1025	Grease oil (See Lard oil).		
(inhibited 11-15% methenol)			Gueiscol, tech., 500-lb dms., 24,000lb. min., f.o.b. Wallingford,		
inke, divd	.1055	.1060	Conn	2.70	_
s., same basis	.39 .44	-	NOTE: Purified grades are 10c, higher		
ıcid 90% tanks, (.a.b.			Guslacwood oll, dms b.	2.60	-
orks	.361/2	-	Guar gum, edible, bgs., c.l., f.o.b. ship't, ptb.	.50	75
6 dms., c.l., works lb. xyst., 18,000 kilos or more.	.511/4	-	Indust. bgs., high viscosity, c i	.50	.75
//8b,	QB.	1.03	same basisb.	.50	.85
ild, food grade, bgs. t.l., frt,		1.40			
Kueld. E	.751/2	.77 ½		نمجضية	_
ade, bgs., t.i., f.o.b. frt.		•			
valdfb. anks, f.o.b. Cedar Rapkis.		.62Vz			
va, and Belie Glade, Fig. 1b.	.75	_			
ohol, tanka, f.o.b. Memphis,			373		
nn. and Omahe, Neb, ib.	.72	-	. ■ / ■ · · · · ·		
			Heliotropin, dms	8.00	.25
			Hemiock of (see Spruce of).	· · · · · ·	
			Henbane leaves, bisb,	.55	-
			Heptane, Indust., tanks, f.o.b. Beau-	1.07	
		يجبسا	mont, Taxgal. 95%,_tanks, f.o.b. Houston,	1.07	-
, frt. alid. 100% basis lb.	2.30		Tex	1.18	_
400-kilo lotskilo - 2	23.05		Heptanolo acid, syn., tanka, f.o.b	.65	- '
ns., Egyptian kito &	35.00 T	05.00	i-Haxadadanoi, syn., tanka, i.o.b ib.	.4314	- •
ble, 100 AOAC test, dins.,		المنا	Herahydrophthalic anhydride, tech,		

busk, same basis b. 75
98% pure, dms., t.l., f.o.b. b. 87
busk, same basis b. 75
pure, dms., t.l., f.o.b. b. 87
busk, same basis b. 75
pure, dms., t.l., f.o.b. b. 1,22
busk, same basis b. 1,25
cresylic acid, contact, dom., metapara
content above 25%, resh and
trigresyl phosphate grades,
tanks, int. sid. b. 58
Cresylic acid, dom., metapara content
25% or less, tanks, frt. sid. b. 58
Cretoric acid; 200-b. dms., t.l., f.o.b.
dvd. 55
Cryolite syn., busk, c.l., works ton 510,00 550,00 | Clove leaf on inconesian, reg. dms. kilo | 2.85 |
Madagascar, reg.	Ib.	4.20
Cloves Brazil	Ib.	2.35
Zanzibar	Ib.	4.20
Madagascar	Ib.	2.35

1.86 2.05 2.15 2.25 2.35 2.45 2.65 I-Hexenol, syn., tanks, £o.b. b. 50
Hexyl alcohol, mixed feomers, tanks. fb. 32
p-Hexyl methacrylate, dme. o.l., works. b. 75%
Hexylene glycol, tanks, dlyd. b. 50
Hexylene glycol, tanks, dlyd. b. 50
Hexylene glycol, tanks, dlyd. b. 80.00
Hexylesorolnol, USP, dms. 25-lb. lots
or more, frt. alld. b. 80.00
Homstropine hydrobromide, USP, 1010(1-oz. lots, bots. cz. 10.25
Homstropine methylbromide, USP, 10256 oz. lots, bots. cz. 9.70
Horshound herb, bls. b. 25
Hydrazine hydrate, 85%, l.t. frt. alld. b. 1.54
55-gel, dms., t.l., frt, alld. b. 1.54
Hydrozine hydrate, 85%, l.t. frt. alld. b. 1.61
Hydrodic sold, purif., 47%-57%, 2phys., f.o.b. works. b. 7.50
Hydrozibelyl alcohol, tsoh. sofid.
dips., cl., f.o.b. zone 1 b. 85
Hydrozhorio sold, sahyd. (see Hydrogen chloride). 11.30 9.70 10.70 26 .28

1	
Ni	
11	(ICE)
WEEK	ENDING AUGUST 8, 1986

Hydrochloric acid, 20° Be, lanks,		
works, East ton Midwest ton	65.00 60.00	65.00 70.00
Gulf Coast	57.00	70.00
West Coast ton	90,00	105.00
22° acid, same basis, East ton	68.00	76.00
Michaest	86.00 83.50	70.00
West Coast	100.00	115.00
NOTE: Prices vary and are either freigh	it collect fre	eight equal-
ized depending on producer and	liocation.	•
Hydrocortisone acetele, micronized, dms., 25 kilosor more . gram.	.70	_
Hydrocortisone, alcohol, micronized,	,,,,	
dms., 25 kilos or more . gram.	.70	-
Hydrofluoric acid, anhyd. (see Hydrogen Hydrofluoric acid, aqueous. 70%	filloride)	
IANKS 1.0.D. 111.		
BOLLERO	43.00	-
Hydrofluosificic acid, 16-gal. dms., t.l., works, 30% basis	161.00	
tanks, 100% basis, works lon	151.00 100.00	140.00
Hydrogenioromicie, anhyd. cyls., extra,		1.0100
30,000-lbs.,1.o.b. works lb.	7.00	-
Hydrogen chloride, anhyd., 50-lb. cyls., c.J., works	.65	_
600-lb. cyls., c.l., same basis lb.	.62	-
Hydrogen chioride, anhyd., tube trail-		
ers, seller's traffer, min,	.37	
100,000 lbs. a year lb.	27	-
Hydrogen chloride enhyd., tenks,		
Works	270.00	-
Hydrogen cyenide, #q., 99.5%, tanks, worksib.	.50	-
Hydrogen Illionide, annyd., tank care		
c.i., f.o.b., frt. equaldib. Hydrogen peroxidia, 35% tech., tanka,	.6875	-
works, it. equald	.2325	_
50% tenkcara, frt. equald lb.	.3225	-
70%, tankcara frt. equald lb.	.45	-
Hydrogen sulfide, #q., 99.25% min, seller's tanks, worksib,	.12	.13
170 lb. cylinders lb.	2.27	
Hydroduingne, photo grade, consum-		
ers. c.l., t.l., divd lb. tech., dms. c.l., divd lb.	2.54 1.95	-
Hydroxyacetic acid, tech., 70%, tanks.	1.00	-
Belle, W. Va	.4912	-
Hydroxylammonium sullate, dms., t.l., f.o.b.	.83	_
p-hydroxycenzene sullonic acid (see p-l	Phenolsulfo	onic acid).
Hydroxybuty: methylcellulose (visc.		•
12,000 cps.) 50 lb. bags, tl., cl. 30,000 lb., min., divd., zona		
1b.	2.10	_
1ib. Hydroxycitroneliai dimethyl acetal.	40	
p-Hydroxydiphenytamine, dms., t.l.,	18.55	-
f.o.b. works	4.10	_
Hydroxycitronalial,		
natural, dms	9.40 13.60	-
extra grade, dms	14.80	-
syn., dms	9.50	
Hydroxyethyl cellulose, t.l., clvdib. Hydroxyethyl methylcellulose (visc.	2.07	2.12
5.000 through 45.000 coa.) 50		
10. Dags. t.l., c.l., 30.000 lb.		
min. civd., zone 1 fb.	2.73	-
Hydroxypropyl methylcelulose, pre- mium, U.S.P. (visc. 4,000		
through 15,000) 50 tb. bags.		
t.l., c.l., 30,000 ib. min., divd.,	2.87	_
zone 1	2.07	-
(visa, 50 through 100 cos) 50		
10, 080B, 1.)., 0)., 30,000 lb.	2.99	
min., divd., zone 1 ib. Hydroxypropyl methylceltulosa (visc. 4,000 through 15,000 cpa) 80		-
4,000 through 15,000 cps) 50		
b. bags, t.l., c.l., 30,000 lb. in., dvd., zone 1	2.17	_
Hydroxypropyl methylcelulose (visc.		_

AR CHEMICAL	ARKE	TINGR	EP
same basia	2.00	2.15	_
(on lots, div. E	2.7 0		.[
whole	.55	.60	-
tpecaproot, whole, bgs b. triah moss, bleached, prime,	25.00	-	Ţ
b-fonone, dins	13,10	-	
a-fondine, dms	18.20	•	- 1
works	24.00	-	- (
alid	35.00	45.00	.[1
lodochloritydroxyquin, USP, XVI 50- kilo dime., 100-499 kilos, 1rt.			1
lodine USP	14.21	14.59	[
lodine, crudo, dims kilo	13.50	1B.00	։ ի լ
more, f.o.b, works kilo	17.50	22.00	1
indole, dmsb. inositol, 50-kilo dms., 1000 kilos or	25.50	-	
c.l., t.l., worksb.	8.00	~	11
iminodiacetic acid, 96% min., dms.,	120	4.50	1.
Ichthammot. NF. 200-kilo dms lb.	4.25	4.50	. [_
		٠.	١ī
			1.
			11
			11
dms., c.l., worksb.	3.15		1
Hypophosphorous acid, pulli., 50%			-
civd., zone 1	4.04	-	K
0804, L.L., C.I., 30,000 lb, min.,	2.64		
50 through 100 cps) 50 lb.		•	Ìκ
civd., zone 1	2.17	-	1
b. begs. U.J., c.J., 30,000 lb. in.,			ì
Hydroxypropyl methylceluloss (visc. 4,000 through 15,000 cps) 50			۱ ۱
min., divd., zone 1 ib.	2.99	-	•
n, bags, t.i., ci., 30,000 lb.			
lydroxypropyl methylcelulose, U.S.P (vise, 50 through 100 cps) 50			
zone 1	2.87	-	

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	والمناقر بشروا ويشاور المناور المناورة	·		
ĺ	fron, purif., powd., pails, 10-100-lb. lotsb.	1.00	-	Lake C, red to alld.
١.	iron oxida, black, syn., bga., c.i., m. acuaidb.	.38%	.44	Langiin, anhy dms., pharmac
	iron oxide, brown, syn., bgs., c.i., frt. equaldb.	.36	.4414	works tech., (un
l	tron oxide, metafic brown, i.c.i., bgs., frt, equaldb. Iron oxide, nat., red., dom., pure, bgs.,	.13	.15	dms., Lard (See Oils.
ı	c.l., works ,	.435 .18	-	Lard oil, No. 1, tanks, same
1	syn., bgs., c.l., irt, equald ib. Iron oxide, buil, nat., dom, bgs., c.l.,	.4275	-	Lard oil, extra c.i
l	t.i., works, light lb.	.055 .044	-	(anks, sar prime, burn sis, C
١,	other shades, bgs., c.l., frt. equaldb. lsatoic anhydride, bgs., f.o.b. works lb.	.341/2 1.40	.361/2 -	prime, buri
ļi	iscamyl elcohol, 95% tanks, (rt.	1.44	1.48	NOTE: 300 N Coas
H	sobomeol, 100 lb. dma lb. sobomyl acetate, dms	7.25 .80	1.15	Laurelleaves, Laurent's acid
1	sobutyl acetate, solvent grade, tanks, int. elid	.45 .71	.48	Lauric acid, co Lauric aldeh dms.
11	Isobutyi acrylate, tenks, frt. alld. E. , Ib. Isobutyi alcohol, tanks, divd , ib. Isobutyiene, 99%, tanks, f.o.b.	.29	-	n-Lauryi meth work
۱.	worksib. sobutyl isobutyrale, tanks, f.o.b.	.32	-	Lavandin oil. / Lavender flow
ŀ	works	.421/2 .87	Ξ.	medium, bis select, bis.
[!	sobutyl phenylacetate, dms lb. sobutyl salicylate, dms b.	3.10 3.45	3.50 -	Levender flow 40-42%,
Ι,	sobutyraldehyda, tech., dms., g.l., divdb. tanks, divdb.	.43 .35	-	apike, Span Lead acetate drns.,
ļ	sobutyric acid, dms., c.l., t.l., divd lb. tanks, same basis	No Prio	68	tech., fil
	sobutyronitrile, dms., c.l., f.a.b. works frt. collect	.84	_	Lead blue, ba ship,t
	tanks, same basis	.76 5.20	5.60	Lead carbona Lead chloride
Į.	soniażid, powd. sonicotinic scid, hydrazina (sae lacniazid), sononyl sicohol, dms., t. l ib.	12.00 .48	_	Lead dioxide dms. Lead fluobora
l	so-octy/ alcohol, tanks, divd b. sophorone, tanks divd b.	.44 .81	=	work
Ì	sophthelic acid, 99%, bulk, I.o.b., Jollet, III., min, frt, ald , ib.	.48	_	Lead monosi
۱ ۱	sophihalonitrile, bgs., t.l., works ib. sopropyl scetate, tanks, divd fb.	2.65 .47	_	coarse, bgi
<i>\</i> '	sopropyi alcohol, anhyd., 99%, tanks, divdgal.	1.38	-	frt. a Lead nitrate t
١.	refd., 95%, tanks, divd gal. refd., 91%, tanks, divd gal. sopropyl ether, tanks, divd lb.	1,31 1,25 ,44	=	t.l., v Lead peroxid Lead red, 95%
Ι.	crude, tanks, divd	37	Ξ	work
ш	sopropyl myristata, dms., t.i., Eib. ltaconic acid, retd. bgs t.iib.	1.19 1.45	1.50 1.48	Lead, red, 98
۱	ساره براه براه بازن بی در استان در این د این در این د			Lead slicate
Ì				Lead Billico work
l	U			basi Lead, white,
١			_	fri. a Lead, white,
١.	J acid, pasta, dms., works, 100% ba-	4.75	_	Lead, white,
	Japan wax, cs	6,60	5.60	Lecithin, edi ret.
l	producing point gal. Juniper berry oil, italian	55.00 47.00	60.00	unbleach
ı		-1,,00		Barr
1	1//			san adible, të dmi
	K			sam adible, te dm: unbleach san
	K			aan adible, te dma unbleach
	K		-	san adible, te dmi unbleach san Lemonoli, A Braz
	Keolin, wêter washed, fully calcined, bags c.l., f.o.b. Georgia ton	255.00	-	san adible, te unbleach san Lemon oil, A Calif. Italia Lemongas Guaterna di-Leucine,
l	Kaolin, water washed, fully calcined, baga c.i., f.o.b. Georgia ton NF pwd., colloidal, baoteria con- trolled, 50 lb. baga., 5,000 lb. lots.			sanvedible, ich
l	Kaolin, water washed, fully catcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, baoteris controlled, 50 lb. bags., 5,000 lb. lots	255.00 .24 94.00		sant adible, its dividence of the control of the co
l	Kaolin, water washed, fully calcined, bags c.i., f.o.b. Georgia ton NF pwd., colloidal, baoteria controlled, 50 lb. bags., 5,000 lb. lots	255.00 .24 94.00 75.00 73.00	-	sam adible, te dividence unbleach san Lemon oil, A Brazz Calif. Italia Lemongrass Guatemai G-Leucine, Guatemai powd., bi Lignosufion Limo, chem
l	Kaolin, water washed, fully calcined, baga c.i., f.o.b. Georgia ton NF pwd., colloidal, baoteria controlled, 50 lb. bags., 5,000 lb. lots	255.00 .24 94.00 75.00 73.00 70.00	-	sarv edible, ich ich ich unbleach san Lemon oil, A Braz Calli, italiai Lemongras Guatemai di-Leucine, ich gran, bis powd, bit Lignosufion Limo, chen bull Lime, chem
l	Kaolin, water washed, fully catcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, bacteria controled, 50 lb. bags., 5,000 lb. lots	255.00 .24 94.00 75.00 73.00 70.00 58.00	-	sarv edible, ich ich ich unbleach san Lemon oil, A Braz Calli, italiai Lemongras Guatemai di-Leucine, ich powd, bit Lignosufion Limo, chem bull Lime, chem
l	Kaolin, water washed, fully catcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, baoteris controlled, 50 lb. bags., \$,000 lb. lots	255,00 .24 94,00 75,00 73,00 70,00 58,00	-	sant adible, te dividence unbleach san Lemon oil, A Brazz Calif. italiai Lemongrass Guatemai di-Leucine, c Licorice roco gran, bia powd., bis Lignosuffon Limo, chem buil oil Lime, chem bas
l	Kaolin, water washed, fully calcined, bags c.i., f.o.b. Georgia ton NF pwd., colloidal, bacteria controlled, 50 lb. bags., 5,000 lb. lots	255.00 .24 94.00 75.00 73.00 70.00 58.00 182.00 80.00 2.25		sam adible, to divide the unbleach san Lemon oil, A Brazz Calif. litalia litalia Lemongrass Guatema di-Leucine, (Licorice roc) gran, bia powd, bi Lignosulion Limo, cham buil oil Lime, cham bas bgs. Lime, NF, p Lime oil, dia Halilan, d expresse Lime saits (
l	Kaolin, water washed, fully catcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, baoteris controlled, 50 lb. bags., \$,000 lb. lots	255.00 .24 94.00 75.00 73.00 70.00 58.00		service de la companya de la company
l	Kaolin, water washed, fully catcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, baoteris controlled, 50 lb. bags., 8,000 lb. lots	255,00 .24 94.00 75.00 73.00 70.00 58.00 182.00 60.00 2.25 1.95		service servic
l	Kaolin, water washed, fully catcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, baoteris controlled, 50 lb. bags., 8,000 lb. lots	255,00 .24 94.00 75.00 73.00 70.00 58.00 182.00 60.00 2.25 1.95		service de la companya de comp
l	Kaolin, water washed, fully catcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, baoteris controlled, 50 lb. bags., 8,000 lb. lots	255,00 .24 94.00 75.00 73.00 70.00 58.00 182.00 60.00 2.25 1.95		service servic
l	Kaolin, water washed, fully catcined, bags o.l., f.o.b. Georgia ton NF pwd., colloidal, baoteria controled, 50 lb. bags., 5,000 lb. lots	255.00 .24 94.00 75.00 73.00 70.00 58.00 182.00 80.00 2.25 1.95 .49½	.51	service de la composition de l
l	Kaolin, water washed, fully catcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, baoteria controlled, 50 lb. bags., \$,000 lb. lots lb. Kaolin, uncalcined. No. 1 coating, bulk, c.l., f.o.b., Georgia ton No. 2 coating ton No. 3 coating ton No. 4 coating ton No. 4 coating ton detaminated water washed, uncalcined paint grade 1 micron avg., erained bast ton cry-grd, erained soft, same basts ton Karayagum, No. 1, powd., bbis lb. Kola nuts, bge lb. Kola nuts, bge lb.	255.00 24 94.00 75.00 73.00 70.00 58.00 182.00 80.00 2.25 1.95 .49/2	.51	service de la companya de la company
	Kaolin, water washed, fully catcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, baoteria controlled, 50 lb. bags., 5,000 lb. lots lb. Kaolin, uncalcined. No. 1 coating, bulk, c.l., f.o.b., Georgia ton No. 2 coating ton No. 3 coating ton No. 4 coating ton No. 4 coating ton Siller, gen, I purpose, same basis ton detaminated water washed, uncalcined paint grade 1 micron avg., same basis ton dry-gid. etiloated soft, same basis ton No. 2, powd., bbis ton No. 2, powd., bbis lb. Kola nuis, bgs lb. Kola nuis, bgs lb. Lacquer diluent patroleum, 140F-200F. b.r., t.o., New Jersey and New York gs. Houston, Texas gg. Lacquer diluent, patroleum, 200F. Lacquer diluent, patroleum, 200F	255.00 .24 94.00 75.00 73.00 70.00 58.00 182.00 80.00 2.25 1.95 .49½	.51	sam edible, te dividence dividence sam Lemon oil, A Brazz Calli, litalial Lemongrass Guatemal di-Leucine, oil Lidorice re, oi Lime, chem base base base base base base base base
	Kaolin, water washed, fully calcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, baoteria controlled, 50 lb. bags., 5,000 lb. lots	255.00 24 94.00 75.00 73.00 70.00 58.00 182.00 60.00 2.25 1.95 .49/2		seri seri comi unbleach san Lemon oil, A Brazz Calif. Italian Lemongrass Guatemai ci-Lucine, clicorice root gran, bis powd, bi Lignosuffon Lime, chem buil pias Lime, chem buil ci-lume, chem buil ci-lume, chem buil ci-lume, chem base bgs. Lime, vif. p Lime salts (d-Limonens Linelool ox to syn., 98-1 Linelool ox to syn., 98-1 Linelool ox to chem benefit seet ci-lume, chem Linelool ox to chem benefit seet ci-lume,
	Kaolin, water washed, fully catcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, bacteria controleod, 50 lb. bags., 5,000 lb. lots. lb. Kaolin, uncalcined. No. 1 coating, bulk, c.l., f.o.b., Georgia ton No. 2 coating ton No. 3 coating ton No. 4 coating ton No. 4 coating ton Illier, gent, purpose, same basis. ton delaminated water washed, uncalched paint grade 1 micron swg., same basis. ton dry-grd. sirloited soft, same basis. ton Karayagum, No. 1, powd., bbls. lb. No. 2, powd., bbls. lb. No. 2, powd., bbls. lb. Kolanuis, bgs. lb. Lacquer diluent patroleum, 140F-200F. b.r., t.o., New Jersey and New York and New Jersey. gel. Lecquer diluent, petrolaum 200F-240F. b.r., tankoars, New York and New Jersey. gel. Houston, Tex.	255.00 .24 94.00 75.00 73.00 58.00 182.00 80.00 2.25 1.95 .49½	.51	service de la companya de la company
	Kaolin, water washed, fully catcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, bacteris controlled, 50 lb. bags., 5,000 lb. lots lb. Kaolin, uncalcined. No. 1 coating, bulk, c.l., f.o.b., Georgia ton No. 2 coating ton No. 3 coating ton No. 4 coating ton No. 4 coating ton detaminated water washed, uncalcined paint grade 1 micron avg., same basis ton dry-gid, etfloated soft, same basis ton Cry-gid, etfloated soft, same basis ton No. 2, powd., bbis lb. Kola nuis, bge lb. Kola nuis, bge lb. Kola nuis, bge lb. Lacquer diluent, petroleum, 140F-200F. b.r., t.o., New Jersey and New York gal. Lacquer diluent, petroleum 200F.—240F. b.r., tankoars, New York and New Jersey gal. Lactio acid, food grade 88%, t.c., f.o.b. works, b. 50%, t.c., frt. equatid. bb.	255.00 24 94.00 75.00 73.00 70.00 58.00 182.00 80.00 2.25 1.95 .49½ 1.20 1.29 1.20 1.10 6.82		services ser
	Kaolin, water washed, fully catcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, bacteris controlled, 50 lb. bags., 5,000 lb. lots lb. Kaolin, uncalcined. No. 1 coating, bulk, c.l., f.o.b., Georgia ton No. 2 coating ton No. 3 coating ton No. 4 coating ton No. 4 coating ton No. 4 coating ton detaminated water washed, uncalcined paint grade 1 micron say, same basis ton dry-gid. elifloated soft, same basis ton Cry-gid. elifloated soft, same basis ton No. 2, powd., bbis lb. Karayagum, No. 1, powd., bbis lb. Kola nuis, bge lb. Kola nuis, bge lb. Kola nuis, bge lb. Lacquer diluent, petroleum, 140F-200F. b.r., to., New Jersey and New York gal. Lecquer diluent, petroleum 200F 240F. b.r., tankoars, New York and New Jersey gal. Lectio acid, food grade 88%, t.o., f.o.b. works b. 50%, t.o., frt. equald b. tach, 88%, t.o., frt. equald b. works tach lose, edible, reg. bgs., c.i.	255.00 .24 94.00 75.00 73.00 70.00 58.00 80.00 2.25 1.95 49½ 1.28 1.29 1.20 1.12	1.25	services and control of the control
	Kaolin, water washed, fully calcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, baoteris controlled, 50 lb. bags., 8,000 lb. lots	255.00 24 94.00 75.00 73.00 70.00 58.00 182.00 80.00 2.25 1.95 .49/2	1.25	service de la company de la co
	Kaolin, water washed, fully catcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, bacteria controlled, 50 lb. bags., 5,000 lb. lots lb. Kaolin, uncalcined. No. 1 coating, bulk, c.l., f.o.b., Georgia ton No. 2 coating ton No. 2 coating ton No. 4 coating ton No. 4 coating ton Siller, gen, I purpose, same basis ton detaminated water washed, uncalcined paint grade 1 micron svg., same basis ton dry-gid. sirloiated soft, same basis ton dry-gid. sirloiated soft, same basis ton No. 2, powd., bbis lb. No. 2, powd., bbis lb. Kola nuis, bgs lb. Kola nuis, bgs lb. Kola nuis, bgs lb. Lacquer diluent, petroleum, 140F-240F. b.r., tankoars, New York and New York gal. Lacquer diluent, petroleum 200F-240F. b.r., tankoars, New York and New Jersey gal. Lacquer diluent, fex gal. Lacquer diluent, fex gal. Lacquer diluent, petroleum 200F soft, 100 b. works b. Soft, 1.c., frt. equald b. tach, 88%, t.a., frt. equald b. Lactose, edibte, reg. bgs., c.l. works works	255.00 .24 94.00 75.00 73.00 70.00 58.00 80.00 2.25 1.95 49½ 1.28 1.29 1.20 1.12 1.06 .82 1.08	1.25	service de la companya de la company
	Kaolin, water washed, fully catcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, baoteria controlled, 50 lb. bags., 8,000 lb. lots	255.00 .24 94.00 75.00 73.00 58.00 182.00 80.00 2.25 1.95 .49½ 1.28 1.29 1.20 1.12 1.06 .62 1.03 .62 1.03 .62 1.03	1.25 	service de la company de la co
	Kaolin, water washed, fully catcined, bags c.l., Lo.b. Georgia ton NF pwd., colloidal, bacteris controlled, 50 lb. bags., 5,000 lb. lots	255.00 .24 .94.00 .75.00 .73.00 .70.00 .88.00 .89.00 .225 .1.95 .491/2 .1.29 .1.29 .1.29 .1.29 .1.29 .1.29 .1.29 .1.03 .22 .80 .80 .80 .80 .80 .80 .80 .80 .80 .80	1.25 	service de la company de la co
	Kaolin, water washed, fully catcined, bags c.l., f.o.b. Georgia ton NF pwd., colloidal, baoteria controlled, 50 lb. bags., 8,000 lb. lots	255.00 24 94.00 75.00 73.00 70.00 58.00 182.00 80.00 2.25 1.95 1.29 1.29 1.29 1.29 1.06 .62 1.03 .82 1.03	1.25 -28 Prices -69 Prices	service de la companya de la company

FR August 11, 1986

<u>ا</u> ا	ake C, red tonor. (red 53) bbls , lrt.	5 70	1	Lithmanthydrade, a U. C. abid 10,000 or	Managagaga
Li	anoiin, anhyd., cosmetic. 400-lb. dms, works lb	1 18	1 25	Lithian hydrocate monohydrate, the C. H. ded b. 193	Manganese r dms precip. 61/2
	pharmaceutical, 400-lb. dnis works	1.15	1	Lith van hypes fronto, c.f., t., works B. 1.07 Lithum modal + 000 to lots or more.	Manganese Haun
ļ	tech., (under 2% 1.1.a.), 400-lb. dms., works.	1 08	113	Lathrague category, tech days 100-b 22.70	25 k E. of
լե	ard (See Oils, Fals & Wexes market rep ard oil, No. 1, dms., c l., 1.o.b lb	3-	- 1	Letteren of our at a large of the same by 3.25	bulk, hopp Manganese
ار	lanks, same basis*D. ard oil, extre, winter-stremed, dms	28		Little red tener, banum, dris., fr.	bgs. Manganese t irt. a
l	tanks, same basis	41 33	ļ	Cathorine dates name basis	Mannitol, or work
l	prime, burning, dms., c i., same ba- sis, Chicago	43		Los not by June 10 Down hos	Marjoram, Fr Egypt MBT (see 2-N
l	sis	.35 at Texas, 2c .	auxi West	Lycepostum, 50 to day	MBTS (see M MDI (see Di
ļ١	Coast, 3c. higher. b.	.60	6B	United the Court of the Court o	Melamine, b min.,
ľ	aurent's acid, drums, f.o b lb auric acid, comi, pure bgs., c.i lb	3 85 .65	.71		bulk, c.f., t.l Metamine-for frt, el
Ĺ	.aurio aldehyde (aldehyde C-12). dms.,b. I-Lauryi methacrylate, dms., c.l., L.l.,	7 75	- [RA	molding o
1	workslb. avandin oil, Abriets, 30-32%, dms. lb.	1.72 4.00	<u>:</u>	:	Menhaden oil Jentic
	avender flowers, ord	.65 80	75 90		Gulf ports, Menthol, net. regu
۱	select, bis	1.10	1.19	Marin, f. not fortune, rating 5. B. 8.00 5.10 5.00 5.00 5.00 5.00 5.00 5.00 5	bulk. syn., USP,
١.	40-42%, ester, cns	9.25 16.00	13.50 22 00	Magnesia, tech., light, neoprene- gridu, bys., ch. (1. works lb758) Magnesia, syn., tech., chemical-	2-Mercaptob work
ו	ead acetate, purif., flake. 400-lb. drns., works	.46	-	grade bulk c1, t1. Works . ton 330.00	Mercaptober dms
١	works	.37	-	bags.cl.(1, samobasis 10n 365.00 - degdburned, bulk, same ba-	Mercuric chi 100- Mercuric ox
Ι.	ship,t, pt., f.o.b	.87 carbonate).	-	514 ton 392 00 5gs - Samo trasis ton 409.00	dms tech.,1
	.ead chloride, 400-lb. dms., works. lb. .ead dioxide, tech , powd., 200-lb.	3 25	-	Magnosia nat , tech , heavy, 85° s, 150 mesh, bulk, cl. tl. f.o.b. Nov. ton 232.00	sis. yellow, f
լ	drvs., t.l., works lb. ead fluoborate, fig. conc., drss., t.l.,	.66. 65	.70	90°s, 325 mosh, same basis. ton 265.00 -	ale. tech., : als.
۱ŧ	works, frt. equald lb. ead metal, divd lb. ead monosikcate, milled, bgs., c.l.,	.18	.1812	Magnosium carbonato, light, toch	Mercurous of Mercury, arr
١.	i.o.b. worksib. coarse, bgs., c.l., same basis,ib.	.5872 .5772	-	bgs., cl., th., works, frt.	Mesityl oxide Methacrylic
1	Lead naphifienate sq., 24% Pb. dms., irt. alldb.	.93	-	USP, heavy, bgs, c.t., sume bases to .74 % USP, heavy, bgs, c.t., sume bases th .83 Magnesium chloride, anhyd., 92%.	t.l., lanks, v d-Methamp
١.	Lead nitrate tech., cryst , 400-lb. dms., t.l., works lb. Lead peroxide (see Lead dioxide).	.32Vz	-	flake or pobble dins c.l.	<i>dm</i> e di-Methamp
	Lead red, 95% Pb ₃ O ₄ , or less, bgs. c.l., works	37	_	Magnesium chloride, hydrous, 99%, flake, bgs .c l . works lb	dms Methanol, s f.o.t
	Lead red, 97% Pb ₃ O ₄ , bgs. c.l., worksb.	371/2	_	Magnesium gluconate, 100-lb dms (o b works, E lb 425 -	Coa Methenamin
	Lead, red, 98% Pb ₃ O ₄ , bgs., c.i., same basisb Lead slicate (see Lead, white, basic si	371/2	.40%	Maynosium hydroxide, NF, powd., dins., c.f., t.f., works frt. oguskf	Methionine 88%
	Lead Bilicochromate, bgs., c.i.	35	_	Magnosium lauryi milinto, tinks, f.o.b. works	liquid alid. di-Methionine
	Lead sulfate (see Lead, blue, basic s basic sulfate)	ulfate and L	.oad, white,	Magnesium motal, 98.8%, ingots. 10,000-ib lots or more. Lo b	Methoxychlo deak
١.	Lead, white, basic carbonate, bgs., c.i.	62	-	Freeport, Tex. Ib 1.53 the chairing alloys Ib. Ib. 1.29 1.33	Methyl abiel divd.
-	Lead, white, basic, silicate, bgs., c.i. same basis	87	-	Magnesium niirate, toch , flake, 250- ib dms , i.i., worksib32 Magnesiumoxide, USP, light, bgs., c i	Methyl ablet: ret. sks.
ı	same basis	85	-	works, fet equald	Mathyl ace bulk
1	ret. dms., i.c.i., works ib unbleached non-ret. dms., i.c.i.		-	Magnosium oxido, tech (500 Magnosia). Magnosium phasphate, Inbasic, tech. 80 lb bas (104).	Methyl acryla Methyl alcoho Methyl amyl a
1	same basis	•	_	Magnesium alicato (seo Talc).	Methyl n-emy Methyl anth
1	unbleached, non-rét., dms., (.) same basis	. 28	_	Mognosium sparato, buk, t.l. lb85 1.86 Mognosium sparato, buk, t.l. lb85	f.o.b. Methyl benzo
1	Lemon oli, Argentina ki Brazil	o 14.00 o. 6.50	7.00	Majnoslum sulfate 10% Mg (opsom salts), toch. bgs., t.l.,	99.9%, per Methyl bromi lbs. n
ı	italianii Lemongrass oli, Indian, dmakii	D. 12.50	9.36	works	Mathy/cellulo: 400 t
ł	Guatemalan, dms	o. 2.26	90.00	USP, cryet., bulk, semo basia . lb	baga divd. Mathylcatulos
1	gran., bis	34Q 570	.50 .90	thetic monehydrate), tech.	16 G
ļ	powd., bis	o. ,95 rm or Sodiu	m liyinin Bul-	CP camo basis	Methylcellulo 4,000 30,00
	Limo, chemical, pubble (quicklime bulk, 50,000 lbs., works to t	1		Mognesum sulfate trihydrate, tech. bgs., t.l., worksb. 45	Mathylcellulo:
1	Lime, chemical, hydrated, bulk, sam	n 39.00	45.00	Magnosium triallicate, USP, powd., 193- dris, 5,000 fb, lots fb	ib by min. Methyl chlork
ļ	bgs., seme basis	n 46.00 n 64.00 h 80	60.00 67.00	USP, micronized powd., dma 83 376-lb. tota	f.o.b. Mathylichlorou
	Lime off, dist., Mexican, dms	b. 6.00 b. 8.00	=	Maleic add, cryst., powd., drums, 100 kilos (c.b.)	Methyl p-cress Methyl p-cress
١	Lime salts (see Calcium).	b. 17.50	-	drums, tons, 1.0.b 1008	Methyl surgeric Methyl former
ļ	d-Limonens, dms	h 895	.86	lanks, works, frt. oquald	Works lanks, same
•	syn., 98-100% dms., f.o.b. works. Linalool oxide, syn., 55-gal. dm Linalyi scetate ex bols de rose oil, 9	b. 7.78 O-	=	Maile seld, purif, and food grades of gi	Methyl hepten Methyl hepten
١	92%, dms	b. 18.00 b 3.10	21.00	Mandelic acid, dms., 1,000 kilo acid film	Methyl heptin Methyl p-hydro Methyl lonone Methyl lonone
ļ	Linalyi cinnamate, syn., 55-gal. dms. i Linalyi cinnamate, syn., 56-ga	b. 8.00 N.	-	Manganese acetate, cinyorate, cing 131, 177	וווייים ווייים ווייים ווייים ווייים
,	Linalyi formate, syn., 55-gal. dms i Linalyi isobutyrate, syn., 55-ga	b. 59,85 b. 7 <i>7</i> 6	8.50	Mannanese horate printing ink drief to	Methyl isobuty Methyl isobuty
j	Lindane, 20% formulation dive	b. 6.50	6.85	Manganese carbonate, chemical	divd. zone
	89.9% tech dms i.	a 13.10	~	Manoanese chloride: anhyd., differ	Methyl laceup
	Linalyi propionate syn 66-o	ID. 6.50	· -	20,000-lb, lots or more.	Methyl methac Methyl naph dna
	dms Linden flowers, with leaves, bis. without leaves, bis.	B	.85 1,15	L works ton 250,00 300	Toll y parabe
	Linesed meal (see Oils, Fats & Waxe Linesed of the City Eats & Waxes	a market rep	ort). rt) :	to a fundada po se as talente a funda funda a	Methyl perathi
	Linssed off fatty scid, dist., dms	b80	.67	chambral famile grade, series 29	Mathe Marine
	Lithium bromide, enhand does	8 036	.60	018.	N-Methyl 2-py plant dms. o
	i SOIN Rama hook	b. 6.2 7	= :	Manganese hynophosphite, NF, cine 475	Melhyl rosean cens. Merhyl salloyl
	t.l., dvd.	il. Ib. 1.50	i,	Manganese metal electropytic to	Method 1 m
	divd.	J. (1997)		ome, o.l. works	Helpy volet bbls.
	Lithium fluoride, dms., o.l., t.l., divd.	b. 3.32 b. 2.94 b. 4.90		Mangarese malai, escripytio, No. 314 chip, buls, o.l., works drine, o.l., works Mangarese paphibliopate, po. 674 Mil. 67 drije; dws.	
<u> </u>	The state of the s		1 (i i i i i i	2000年1月1日中国建筑工作、首都最后的图1	

}			
	Manganese resinate, fused, 3½% Mn.	.3414	
!	dms. frt. alkdb. precip. 614-7% Mn. dmsb. Manganese sulfate, ferültzer grade, run-of-pile, 75%-78% MnSO ₄ ,	.42	-
1	25 kilo bgs., 50-ton cars, divd. E. of Miss ton	280.00	_
;	bulk, hopper care, same basis fon Manganese suitate, 28% Mn, gran., bgs. c.i., t.i., works ton	245.00 330.00	_
1	Manganese taliate, Ilq., 6% Mn, dms., frt. alid	.60	_
	Mannitol, com!, powd., dms., t.l., worksb. Marjoram, French	3.02 .88	.87
!	Egyptian	.60 Krtel	.78
f	MOI (see Diphenylmethane 4,4,-di-lacc Melamine, bgs., c.l., t.l., 40,000-lb.	yanate)	
	min., t.o.b. works lb. bulk, c.f., t.l., same basis lb. Metamine-formaldehyde resin, g.p., t.l.	.511/2 .50	.597 2 .58
	frt. alld b. molding compounds, same ba-	.55	.60
:	als	.461/2	- .15
	Gulf ports, same basisib. Menthol, nat., USP, Brazillan large and regular crystals, spol, cs	.14	.15
	bulk	6.75 9.00	7.50
	2-Mercaptobenzothiazole, bgs., t.l., works, irt. alldlb. Mercaptobenzothiazyl disulfide t.l.,	1.25	1.55
	dms., works, frt. alld lb. Mercuric chloride NF, gran., powd.,	1.33	1.66
	100-lb. dms., f.o.b. works lb. Mercuric oxide, red, purif., 100-lb. dms., f.o.b. works lb.	6.50 7.00	7.25
	tech.,100-lb. dms., same ba- sis	5.50	7.00
	elslb. tech., 100-lb. dms., same ba-	7.00	7.25
j.a	sis	5.50 Mate i 199 X	7.50 \n
	Mesityl oxide, tanks, divd	.46	
	t.l., frt. equaldb. tanks, works, frt. equaldb. d-Methamphetamine hydrochloride,	.87 78	-
	dmsb.	12.00	16.00
	Methanol, syn., tanks, 4,000 gals.,	4.50	7.00
	Coast	.52 mino).	.71%
	liquid. 88% activity. + 1 fre	.86	-
674	alid ib. di-Methionine (see Racamethionine) Methoxychlor, 50% wettable powder.	.88	-
1	dealers, dris	2.05	-
	divd. E	9.40	-
	Methyl acetoacetate, East, divd.	10.00	-
	Mathyl alcohol (see Mathanol)	.85 68.50	=
1906	Methyl amyl akohol, tanke, divdib. Methyl n-amyl ketone, tks divdib. Methyl anthranilate, tech dms	.55 .54 <i>V</i> 2	Ξ
36	Methyl benzoate doe 11	1.41 .25	2.65
•	99.9%, perf, grade, dms., Ll. 10. Methyl bromide, dist., tanks, 140,000 lbs. min., frt. elid. 10.	1.65 .56%	-
	bs. min., frt. alid		
	Methylostulose, promium USP (vicc. 16 cps) 50 lb. bngs, II. d., 30,000 lbs, divd., zono 1, lb. Methylostulose, (vicc. 400 lbrough 4,000 cps) 50 lb. bngs, II. d., 10 lb. Methylose, (vicc. 400 lbrough 4,000 cps) 50 lb. bngs	2.73	-
	30,000 bs., divd., zono 1. ib. Meihylcaliulose, (visc., 400, through	2.85	-
	JU COUNTY OF IN, OFFICE OF I	2.24	_
Ť	Mathylcefulose (visc. 15 to 25 cps) 50 to bags, tl., cl., 30,000 tb., min., chvd., zone 1	2.52	_
!	Mathyl chlorofes	.26	_
. :	Melity D-Crased dress	6.00	=
	Methyl formate, pure property stars	.235 3.55	3.60
gr Fr	lanks, same basis ib.	.41 .29	Ξ
1	Methyl heptenol, syn., 55-gal. dms. lb.	.31 14.50 7.30	Ξ
a	Metryl populatione, pure, dima. b. Metryl populatione, pure dima. b. Metryl populatione, etd., dima. b. Metryl conse, etd., dima. b. Metryl compyl ketone, tanks, divid.	45.00 araben)	-
*	Menyl iscamyl ketone, tanke, cilyd. Menyl isobutyl carbinol (see Methyl amyl Menyl sobutyl ketone, tanke, cilyd. Ro.	7.30 .51	9,40
	470. 2006 9 (Capit	alcohol). .35 .38	-
	Mathylicading Calif.)	.41	-
	mothin be a factor of we had discipled the	6.60 .62	10,40
M	iob.	14.00	-
•	Mother parent of arms, (.o.b. kilo	10.14 9.70	=
	Methyl phenylacetate, dms. ib. M-Methyl phenylacetate, dms. ib. M-Methyl 2-pyrrollidone, banks, f.o. b.	1.68 3.60	5.40
	M-Meihyl 2-pyrrolidone, tanks, f.o.b. plant	1.28 1.34	_
級	Marryl salicylate NF 1000 lb.	5.60	- , .
	Methyl violet (see Methyl roseartiline chlor Heinyl violet inner, motivity roseartiline chlor	1.78 ide).	1.94::

Methyl violet loner, tungstated, PTA			Naphthol aryfide red toner deep			
bbis. same basis ib. 4,4,-Methylene dianilina (p,p-di-		5.20	shades, bbls. light shades, bbls.	fb. 7.7	5 -	CHEMI
aminodiphenyi methane crude, dms., t.i., i.o.b ib. purif., fiake, same basis ib.	1.75	-	2-Naphthol-3,6-disulfonic acid, disoc 1-Naphthol-5-sulfonic acid (see L. ac	ld).		ILAEMI
Methylene di-p-phenylene di-Isocyanat 4,4,-di-Isocyanate).	e (see diphenytr	neith <u>a</u> ne	1-Naphthol-5-sulfonic 8-amino acid (Naphthylamine sulfonic mixed acid (s a-Naphthylamine, tanks, f.o.	### Cieve`s	acid).	
Methylene chloride, tariks, 4,000 gal	.35	_	works	b. 2,16 Laurentia	acidi	PRICES
Methylpentanediol (see Hexylene glyco Methylphenylpryazolone (see 1 - Pheny	A)	zalone-	2-Naphthylamine-4,8 disulfonic acid (2-Naphthylamine-1-sulfonic acid (see	see Casse	fla acidt.	PNIUE:
a-Methylstyrene, f.o.b. shipping pt., lb.	.44	_	Nestsfoot oil, 20°F, t.l., f.o.b. work	s), ,52		
p-Mainyinephthalene, bulk, works.gal. Methyithionine chloride (see Methylene	1.38 blue).	-	tanks, f.o.b. works)47)52	-	WEEK ENDING AUGUS
Mica, dry-grd., joint cement, plastic, 50 ib., bgs., c.l., workslb.	.071⁄2	-	tanks, f.o.b. works	48	.49	Oleum (see Sulfuric acid, furning). Olibanum gum, tears, bgs (b.
dry-grd., roofing, 20 to 80 mesh. works	.07	-	tanks, f.o.b. works	within 300	-mileradius of	Olive oil, edible, Spanish, dros gal. i italian B-type
bgs., c.l., f.o.b. works fb. rubber, bgs., c.l., f.o.b. works lb.	.1634	-	higher and West Coast 3c. hig Neomycin aulfate, USP, non-sterite	vher.	ei, i 9XB3, 2C.	Olivine, crude, works
walipaper, bgs., c.l., f.o.b. works. lb. Microcrystaline wax, petroleum, cost-	.1634 .22	Ξ	tims., 50-kilo, lots, activity ba	75 No		100 mesh. works ton Oplum. USP, gran, powd. 25-killa
ing grades, FDA, tanks,	.361⁄₂	.481/2	Neopentyl glycol, slurry, 90% ., c.i., t.i.,	522	2 -	Orange oil, expressed, USP, Calif.,
laminating grades, FDA, tanks,	.381/2	.48	Powder, liake, bgs. t.i., divd lb. Nerol, tech., dms	598 5.30	5.75	expressed Valencia, dms b.
Mineral oil, white, 50-65 vis., USP light tanks, relygal.	2.38	-	perf. grade, dms		5.00	Calif., dist., cns. f.o.b. plant ib. Florida, dms ib.
65-75 vis., tariks, refy gal. 60-90 vis., tariks, refy gal.	2.42 2.45	-	botskilo Tunisian, botskilo Narolidol syn. 55-gsl. dmsb.	1150.00	1650.00	Brazilian kilo West Indian, bitter, NF X, cns., dms
145-155 vis., tanks, refyga). USP 180-190 vis., tanks, refygal. 200-210 vis., tanks, refygal.	2.53 2.54	Ξ	Nerolin, Bromelin	7.22	=	Orange peel, bitter, Haitian bls lb. Oragano, Greece, 30M lb.
340-350 vis., tanka, rafygal. Mineral spirits, petroleum, odoriess.	2.56 2.65	Ξ.	Niacin NF, dms., 5,000 kilos or more,	7.50	-	Mexico
Houston, Tex		1.88 1.79	reed-grade, 98-99.5%, bgs., same	5 40	5.50	Origanum oil, Spanish, cnskilo Orria root, Fiorentine, bis
Mineral spirits, petroleum, regular, tanks, New Jersey	1.41	1.49	Nickel acetate, dms., 5.000-lbs. to t.1., divd. E	1.82	-	powd., bbis., bxsib. Verona bisb.
Houston, Tex. gal. Molybdate crange, bbis	1.41 1.52	1.43 1.95	lbs. to t.l., dlvd. E	3.45	-	Ouricury wax, reld., pure, bgs ib.
Molybdenum metal, com.l., powd., 99.8%, dms., worksb.	13.50	-	Nickel fluoborate, lig. conc., dms., t.L.	1.19	-	Oxalic scid, bgs., c.l., works ib. b-Oxynaphthoic acid dms. works,
Molybdenum trioxide, CP, dms., works, 24,000 lbs or more.lb, tech., chemical, dms., 24,000 lbs. or	5.25	-	Nickel metal, electro cathodes, cs.	1.25	-	Oxyquinoline base, pure, 1,000 lbs.,
tech motelluroical, dms same basis ib	2.65 2.65	2 85 2.85	works	3 45	-	frt alld
Molyboic acid (See Ammonium Dimoly Monoammonium phosphate, fert.	hdatel	2.03	E	-	-	10.
grade, min. 13% N. 52% P. bulk, c.l., 1.o.b. Fia.			Nickei sulfate, bgs., t.)., divd. E (b Nicotinic acid (see Niecin)	2.60 80	.90	
workston Monoammonium phosphate, tech.,	155.00	-	Nitric acid, 36° Ba., 38°Ba, 40°Ba			
bgs., c.l., t.l., works, frt. equald 100 lbs.	54.00	-	42"Be. tanks, c.l., works NF,	195.00	_	
food grado, bgs., c.i., t.i., same ba- sis	59.25	-	94½% to 98% HNO ₃ , tanks, works, 100% basis ton o-Nitroantline, flake, drns. t.l.	280.00	-	Palladium metal, works Troy-oz. 1
Monobutylamine, bulk, divd	1.69 .96	1.00	o-Nitroantline, flake, drns., f.l. worksb. moltan, refd., tanks, worksb.	1.51 1.44	-	Palm oil, (see Oils, Fats & Waxes Market Fill Palm oil acid, dbl-dist, dms ib. tanks
Monochkrobenzene, tanks, f.o.b., jb. Monoethanolamine, tanks, frt. aiid.	.421/2	- ·	molten, lech., works	1.37	- 1	8.d., dms
Monoethylamine, 70% aqueous tanks,	.43	.46	p-Nivoanline.dmsc.).t.l30.000 in	1.90	- {	Palm kernel oil, bulk, c.i.f., U.S.
frt. prepaid, 100% basis ib. anhyd., tanka, same basis ib.	.94 .92	Ξ.	min., works ib. c-Nitroanlaole, 100-kilo lote kilo Nitrobenzene, tanks, (.c.b ib.	1.63 8.75	= 1	Paimitic acid, 90%, tech., bags,, ib.
Monoisopropanolamine, dms., c.l., frt.	.76	-	o-Nitrochlorobenzene, dms., t.l., c.l., f.o.b	.33 82	.34	tanks
tanks, same basis	.66 .79	-	tanks, same basis	.82 .74	- }	Paorika, Hungarian, 100 AU bgs b. Spanish, 110 AU bgs ib.
tanks, same basis	76	-	Nitroethane, tanks, divd, E ib.	1.75 2.50	- 1	Paraffin, fully-reld., 127-130 F., ASTM, tanks, rely
tained basis fri. equald ib. 26% soin., tanks, frt. ald. 100%	.541/2	-	Nitrogen solutions, direct application, over 32% N, and mgf. type, worksunit-ton.	1.20	_]	130-135 F., ASTM, tanks, refy. 140-145 F., ASTM, tanks, refy.
basis	.57		direct application, 19-32%	1.28	1.48	150-165 F., ASTM, tanks, refy. eleck wax, 5% oil, tanks refy
Monopotassium glutamate, dma., 990	.631/2	_	Nitrogenous sawage sludge, proc- esed, bulk, f.o.b.		····	12% oil, tanks refy
b. or more, trt. alid lb. Monosodium glutamate, 50-lb. bgs. c.i., t.i., divd lb.	2.50 .78	- .80	Chicago unit ton. NOTE: Price is per unit NH ₃ plus \$1, per	4.10 unit a.p.a.	bulk, f.o.b.	Peraformaldehyde, 91%, flake, bgs.
100-lb. drums, c.l., t.l., d/vd lb. Monosodium phosphate (see Sodiumph	.85	- 1	producer, s works, Chicago. Nitrogenous tankage, processed, bulk, per unit-ton NH ₃ , f.o.b. Carrol-			95%, powd., bgs., c.t., t.f. divd, ib. Paraldehyde, tech., 98%, 55-gaf. dms.,
Montan wax, crudo, imp., German . ib.	55	.57	f.o.b. Forbes Me	7.00 6.75	- }	tali, cPvd. E
ahipi, pt	.61	-	expanded, bulk, c.l., per unit-ton N, f.o.b. Forrestdale, R.I. unit ton	8.35	-	Parathion, ethyl, dags., frt. elid ib. 1.7 Parathion methyl (see Methyl parathion). Para toner red, bbls ib. 3.7.
Morphine atkatold, NF, 25 k lots klio Morphine sulfate, USP, 25 k lots klio Morpholine, dms., c.l., irt. alid. E ib.	850.00 1.02	-	Mitromethane, dms., t.i., divd. E fb. o-Nitrophenol, dms., f.o.b. works lb. p-Nitrophenol, dms., c.i., f.o.b.	2.37 1.00	- 1	chlorinated, (red 4) kgsib. 3.7. atchout oil, indonesian., dmskilo 20.0
tanks, frt. alki., E	.94	-	worksb. 2-Nitropropane, tanks, frt, alid. Eb.	1.05 .55	1.45	°each kernei off, USP (eee Apricot kernei oil). °eanul meal (see Oils, Fate & Waxes market re
Musk, syn., embrette, 25-lb, cns lb. Musk, syn., keldne, dms lb.	10.75	.00	m-Mitrotoluene, lech., dms., (rt. alid.)b. o-Nitrotoluene, dms., c.l., f.o.b , lb.	1.15 65.	-	'eanut oil (sea Oils, Fata & Waxes market repor 'ectin dorn., NF, clirus, powd., 100-
Musk. syn., kyloi, dms ib. Mustard oil, syn. (see Allyl isothlocyanate	3.60 a).	- (p-Nitrotoluene, tech. dms., c.l.,	.48	.57 F	klio lota divd lb. 3.3 Palargonic acid, nat., tanka, min. int
Musterd seed, Brown No. 1 lb. Canadian No. 1 Yellow	.24 .25 .25	- 1	works	.83 .70	.85	alidibib
Oriental No. 1 bgs	1.30]	Norephadrine hydrophloride (see Phan	49 Monoperacie	.531/2	billion-unit lots., billionunita 20.0 enicilin, procedne, sterile 50-billion-
tanka	1.12	۱ ۱	drochloride) Nuimen oil, dist. East Indian, NF.		P	unfi lots, bulk billion units. \$6.0i ennyroyal oli, dms
Myrrh gum, bgs ,	2.25	·	dmsklio Nutmegs, East Indian, wholeib.	28.00 2.16	2.25 J	entechlorophenol, 60-lb, bgs., i.l., i.o.b. Wichita Ken lb
					Devi 🖟	entaerythritol, tech., bgs., c.l., f.c.b., frt. alid
			A 計划的 为。如果		coni A S	Tripenteerythritor). miaerythritol triacrylate, t.l. dms.,
17	• •:				10.	1.60 https://www.ib.com/ibs.co
Naphtha, high solvency (see Solvent nap Naphtha, petroleum, cleaners (see Clean	htha, petroleum)	 -			Pe	frt. alid
Naphtha, VM&P, petroleum, lanks,	er's naphtha)	: 10		2.25		ormore, divd
New Jersey and New York-	1.29 1.5			.43V .70	Pe	lots
Houston, Tex	1.20	Sec. 23	Houston, Tex	6.25	, 	Lampong, bgs
orada tenke works	.231/2 -		Colul by decul obtailete tenke			taimen bgs
Naphthalene, petroleum, 80°C., i	30 8	21/2	eri-Octylamine, dme., c.i., t.i., works.	.33% 2.60	.37	JMG,DG8
Naphthalene, rett., Dass, Itakes, whole			dyd. jert-Odyjaminė, dme, c.l., t.l., works. Obtylehenol, mbiten i.g., bodicio oli, ki, dme b.	.75 .40	.7814 P9	pper, while, Muntok, bgs lb
Works. Nachthanic scid, prude, bulk, works ib.	66 7 16 8 75 1.0	.	Neig sciri, cibil-cliet., Awhite), dans (b.	.32 .46	59 Pe	ppermint oil, Medras
I	1,81		tente. Nels acid, s.d. (red) dine. tente. b.	.38 .43	. 23	realization () 11 (0) (extend
a-Naphthoi, ground, dris., Ll. dkd., lb. b-Naphthoi, lach, fiate, 80-fb, bgs., 61, works.	1.10	(a. 11)			41 1	yn , dma, f.o.b. works b. 7.00
			August 11, 1986	C	LEVICAL	MARKETING REPORTER
	4 43	W.				
性學 医二甲基甲基	A . 348			学的特		在一个人的人,不是一个人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的
		10.30	192 192			
A STATE OF THE SECOND STAT						

Naphthol arylide red toner deep shades, bols. Ight shades, bbls. 2-Naphthol-3,6-disulfonic acid, disocil). 7.76 um salt (se		CHEMICAL
1-Naphthol-5-sulfonic acid (see L- acid 1-Naphthol-5-sulfonic 8-amino acid (si Naphthylamina sulfonic mixed acid (se	ee Sacid). e Cleve s	Bcki).	
a-Naphthylamine, tanks, f.o.b works	2,10 aurentia s	ickli	PRICES
2-Naphthylamine-4,8 disulfonic acid (s 2-Naphthylamine-1-sulfonic acid (see 1 Neatsfoot oil, 20°F, t.l., f.o.b. works	Foblas acid	a acid). I).	PNICES
tanks, f.o.b. works lb. 30°F, t.l., f.o.b. works lb.	.52 .47 .52	-	WEEK ENDING AUGUST 8, 1986
tanks, 1.0.b. works	.44 .48 .39	.49	Oleum (see Sulfuric acid, furning). Olfbanum gum, tears, bgs b. 2.10
Delivered prices apply on shipments v Philadelphia, Pa.; other areas, higher and West Coast 3c. high	1 ¼c. hlahe	mileradius (r; Texas, 2	C. Olivine, crude, works
Neomycin sulfate, USP, non-sterite, dms., 50-kilo. lots, activity ba- sis, divdkilo.	75.00	_	20 mesh, works
Neopentyl glycol, alurry, 90%., c.l., t.l., dlyd	.522	_	ots
perf. grade, dms	.598 5.30 4.60	5.75 5.00	expressed Valencia, dms ib. 1.00 1.20 Calif., dist., cns. f.o.b. plant ib
Neroli oil, NF French Bigarade, botskilo Tunisian, botskilo	1150.00	1650.00	Fiorida, dms
Nerolidal syn. 55-gal. dms. 85. Nerolin, Bromelin kijo Niacinamide, USP, t.l. dms. kijo.	7.05 7.22 8.00	=	Orangé peel, bitter, Haitian bls lb
Niacin NF, dms., 5,000 kilos or more, divd. kilo leed-grade, 98-99.5%, bgs., same basis. kso.	7.50	-	Turkey tb. 1.00 1.05 Mexico tb. 1.05 Original Species one tb. 1.05
divd. E	5.10 1.82	5.50	Orris root, Fiorantine, bis
Nickel carbonate, dms., bgs., 5,000- lbs. to t.l., divd. E lb. Nickel chloride, bgs., 10,000-lbs. to t.l.,	3.45	_	Verona bis
Nickel fluoborate, lig. conc., dms. t.I.	1.19	-	Oxalic acid, bgs. c.i., works b
divd. E	1.25 3.45	-	Oxyquinoline base, pure, 1,000 lbs., frt. alid
Nickel nitrate, dms., bgs., t.l., dlvd. E. Nickel oxide, 75%-78% NI, dms., 500-	1.18	-	alid
Nickel sulfate, bgs., t.)., divd. Eib. Nicotinic acid (see Nicotin)	2.60 .80	_ .90	D
Nicotinamide (see Niconamide). Nitric acid. 36° Be., 36°Be, 40°Be. 42°Be. tanks, c.i., works NF.			
100% basis	195.00 280.00	-	Palladium metal, works Troy-oz. 126.00 -
o-Nitroaniline, flake, dms., f.l. works	1.51	_	Palmoli, (see Olis, Fats & Waxes Market Report) Palmoli acid, dbi-diet. dms
molten, tech., works	1.44	Ξ	tankstb30 - s.d., dmsib42 .45 tanksib35 -
p-Nitroanitne, dms., c.), t.ì., 30,000 ib. min., works ib.	1.63	-	Palm kernel oii, bulk, c.t.f., U.S. ports
o-Nitroanisole, 100-kilo lote kilo Nitrobenzene, tenks, f.o.b ib. o-Nitrochlorobenzene, dms., t.i., c.i.,	8.75 .33	.34	Palmitic acid, 90%, tech., bags b 53 - tanks
tanks, same basis	.82 .74	=	Imp. bulk
alid	1.75 2.50	Ξ	Pereffin, fully-refd., 127-130 F., ASTM, tenks, refy
over 32% N, and mgf. type, works	1.20	-	140-145 F., ASTM, tenks, refy
Nitrogenous sewage sludge, proc- esed, bulk, f.o.b.	1.28	1.48	8tack wax, 5% oil, tanks refy
Chicago unit ton. NOTE: Price is per unit NH ₃ plus \$1, per uni	4.10 unit a.p.a. b	uk, 1.o.b.	Peratormakishyde, 91%, flake, bgs. c.l., t.l., divdb. 29% ~
Nitrogenous tankage, processed, bulk, per unit-ton NH ₃ , f.o.b. Carrol- IVNs, Wiso unit ton	7.00	_	95%, powd., bgs., c.t., t.l. divd. ib
f.o.b. Forbes, Me unit ton expanded, bulk, c.l., per unit-ton N, f.o.b. Forrestdele, R.l., unit ton	6.75 8.35	: <u>-</u>	tanks, dvd. E
dtromethane, dms., t.i., divd. E lb. -Nitrophenol, dms., f.o.b. works lb. -Nitrophenol, dms., c.l., f.o.b.	2.37 1.00	= {	Para toner red, bbls
Worksib. P-Nitropropane, tanks, frt. alid. Eib.	1.05 .65	1.45	Peach kernej oll, USP (see Apricot kernei oll). Peanut meal (see Oils, Fats & Waxes market report). Peanut oil (see Oils, Fats & Waxes market report).
n-Nitrotoluene, tech., dms., frt. alid,ib. -Nitrotoluene, dms., c.l., f.o.b ib. Lanke, same basis	1.15 .65 .48	 .57	Pectin dom., NF, citrus, powd., 100- klio lots divd
>-Nitrotoluane, tech. dms., c.l., works	.83 .70	.85	Pelargonic acid, nat., tanke, min, irt, alid
Vonyiphenol, tanke, f.a.b. E. of Rock- les, Min. frt. elid. Voraphedrine hydrochloride (see Phenyi	49 propenolar	.53½ m/10 hy-	Penicifin, potassium, non-sterile, 200, billion-unit lots. , , billionunita 20.00 25.00 Penicifin, processe, sterile 60-billion-
drochloride) lutmeg oil, diet., East Indian, NF dine	28.00 3	7.50	Penicifin, processe, sterile 60-billion- unit lots, bulk. billion units, \$6.00 Pennyroyal oli, dms. ib. 5.90 Pentischiorophenol, 50-lib, bgs. 1.1.
lutmegs, East Indian, whole ib.			Pentaerythritol, Isch., bgs., c.l., f.o.b., 71 .72
			Pentaerythritol, di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol). Pentaerythritol triacrytate, t.i. dma.,
			I.o.b. works b. 1.60 Pentobarbital, dma., 100 lbs. or more, frt. elid. b. 7.00
chre (see Iron odde: yelloly, nat.) ootee cymblenim oli dme lb.		T	Permonarbital-socium, dma. 100 lba.
Antorio establication and a statical facility of the static and a stat		2,30	Pentylene tetrazol, NF, cms., 200-leto lots
ctyl sicohol, perfumer's grade, bots.,	3.25	٠ [Lampong, ogs
Motal' U-obcai bunningto' tsuke'	.33%	.37	Pepper, fed Chinese Fuklen rice bgs b. 85 Halmen, bgs. b. 1.00 Likg, bgs. 76
	2.60	- 1	Pakistan, dundicute, bgs. bb. 88 Pakistan, dundicute, bgs. bb. 43 Pagoser, white, Muntok bos. bb. 230 286
iiçidə olulki, oms	.75 .40 .32 .46	.89	Peppermint leaves, Imp., dms
ianka. sic acid, s.d. (red) dms	.38 .43	.ማቅ ` "}•	Yakina b. 8.00
August 11, 1986			E MARKETING REPORTER

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والمناف الماكات فترقص وإنتون المناور وورواليا			Phthalocyanine blue toner, water dis-		1	Polassium bifluoride, tech , tima , t i , works., int equald ib.	.45	49	
CHEMIC			persable, bbls., same ba- sisb. Phthalocyanine green toner, all grades.	7.05	7.76	Polasskum bitartrate, NF, gran., powd., bos	90	1 20 Pot Pot	
LACMIL	.Δ	L. [] '	bbis., frt. alid. E. of Rock-	8.10	10.10	Potassium borohydride, powd. oms to	(8 00	20 00	
		· I I '	Phthelocyanine green toner, resinated, hits. same basis	7.45	9.20	Potassium bromate, gran., powd., 200-lb, dms., c.l., 1.0 b. works	1.06	Po	
DDICEC		.	Phthelylsulfacelamide, dms., 500- kilo lots,kilo.	6.61	-	Potassium bromide, NF., gran., dms.	1 12	Pot Pot	
PRICES	•		Picclines, refd, mbsed, bulk kilo Picrigacid, pure paste, 25-lb. ctns., c.i.,	2.81	-	Potasalum carbonate, iq., 47% K,CO, tanks, i.w., works 100 bs.	15 40		14
WEEK ENDING AUGUST			dry basis, f.o.b, Charlotte, N.Cb. tech., paste, 25-lb. cins., t.l., dry ba-	6.00	-	dms., c.l., t.l., works 100 lbs calcined, 99-100% K ₂ CO ₂ , hopper	20 65	" Po	
L	0, 100		sis, f.o.b. Charlotts, N.C Ib. Plannent green B. kas Ib.	5.00 2.20	-	works 100 lbs.	32.50	- Shr	
Perchioroethylene, dry dearing grade, distr., tanke, divd lb. Indust., grade, consumers, tanks,	.28%	-]	Pilocarpine hydrochloride, USP, dms	,600.00	2,000.00	bgs., c.l., t.l., works 100 bbs. Potassium carbonate, hydrated, 83-	38 40	r Pri	
dividb. Peri acid. drmsb.	.31 2.55	I i	Pimento see Allapice Pimento leaf oil, dms	14.50	~	88% K ₂ CO ₂ , dms., c.l., t.l., works 100 bs. bgs., c.l., t.l., works 100 bs.	34.90 33.70	- I'''	•
Permanent red 2B, (red 48), calcium aaita, drna., irt. alid ib.	5.25	- <u>]</u> .	Pine oil, 80% min. alcohol content, bulk, f.o.b. works100 los dms., c.l., t.l., same	47.00	63.00	Potassium carbonate, gran., purit., 400-lb, dms., 5-dm. lots lb.	.40	.46	n
berlum selts, same basis	5.25 3.25 5.75	6.25	basis 100 lbs a-Pinene, perfume grade kilo	51.00 1.82	54,00	Potessium chiorate, cryst., dms., ct., worksb	.1412	_ Pr	
Petitgrain oil, Paraguay, lb Petrolatum, USP, snow white, dms., c.l., refy	.375	V	tech. grade,b. b-Pinene, perfumery grade, tanks kilo	.18 2.30	.23 .40	powd., dms., c.l., works b. purit., gran., 325-lb. dms., t.o.b.	.30	Pr	
tanks, refyb. USP, soft white, dms., c.l., refyib.	.310 .375		tech. grade. tanks	.35 1.80	,40 	shipping point	.40	" n	۴
tanks, refyb. USP, kiy white, dms., c.i., refyb. Betroleture 1152 Illumbia tacks	.310 .370	-	Piperazine citrate, 36%, dms., 1,100- lb. lote, int. alidlb.	2.25	2.35	works	105.00	- \n.	q.
Petrolatum, USP, Lilly white, tanka, refyb. USP, cream, clms., cl., refyb.	.305 .365	- i	Piperazine dihydrochloride, 53%, dms., t.l., frt. alidb.	2.00		USP gran., dms	.67		li -0
tanks, refyb. USP, soft yellow, dms., c.l., refyb.	.30 .350	- 1	Piperazine hexahydrate, 44%, dms., 1,100-lb. lots, frt. alid lb.	1.60	-	Potassium chloride, agricultural (see Po Potassium chromate, purif., cryst.,	otassium mu	riate). Pi	
tanks, rafy	.285 .345	- 1	Piperazine phosphate, 42%, cms., t.i., frt. alidb. Piperidine dist. 98% min., dms., c.i., t.i.,	1.80	-	dms., workslb. Potassium citrate, NF, gran., 200-lb.	.57	n n	
tanks, refy	.280	J	works	6.92 5.00	-	dms., frt. alldb. Potassium cyanide, dms., 20,000-lb.		1	
cont., HMW, bulk, works ib. MMW, same basis ib.	.48% .49	.48	Ptetinum, metal, works Tray oz. Polycarbonate resin, pellets, nat., t.l	502.00	-	lots or more, f.o.b. works lb. Potassium dichromate (see Potassium		1	יוני טיי
LMW, same basis	.49 lb. lower	.4914 on corre-	frt. alld	1.84	1.86	bichromate). Potassium fluoborate, tech., dms., c.i. t.i., works, frt. equaid ib			Pro
sponding molecular wits. Phenacetin USP, powd., 200-lb. dms.,	2.20	_ [thophthalic, bulk, tankoars, (rt.elidb. isophthalic, same basis, 'ib.	.51 .58	.53 .62	Potassium fluoride, anhyd., dms.			Pø
1,000-lb. lots, divd lb. 100-lb, dms., 1,000-lb. lots, divd. lb. p-Phenetidine, dms., c.t., (.o.b lb.	2.22 2.00	2.45	Polyathylene resin, high-density, blow molding, g.p., hopper cara, frt.		,	Potassium gluconate, dms., t.l., f.o.b worksb	<u> </u>	_ F	Pu
Phenobarbital, USP, dnie., 500-kilo lots., (.o.b. works kilo	19.50	- {	ald	.43	,46	Price W. of Denver 4c. per lb. higher Potassium gualacolsulfonate, 300-lb).	l	
Phenobarbital-sodium, NF, 500-kilo lots, Lo.b. works kilo	27.00	_	cara, frt. alid lb. extrusion, g.p., hopper cara, same	.43	.46	dms., 600 lbs. or more fri). 2.10	_	Pı
p-Phenol, syn. tanks, frt. equald b. p-Phenolsulfonic acid, 65% soi'n., dms., c.i., fob works b.	.25 .64	.29	basis	47 45	.48 .49	Potassium hydroxide, tech. (see Pota Potassium hydroxide, USP, palleta 100-lb. dms., c i., t.i., works	ι,		
tanks, same basis,ib. Phenothiazine, Indust. grade, 50-ib.	.68	-]	wire and cable, black, same ba-	.551		frt. equald	b. 1.29	1.31	_
bags, c.l., f.o.b. works fb. purif, grade, same basis fb.	2.33 2.69	<u> </u>	Polyethylene realn, low-density, film liner, hopper cars, frt ald ib.	.36	-	dms., 1,000-lb. lots divd l ACS grade truckload l	b. 10.72	13.55	P;
Phenyl acetate, dms., 100-ib. lots, works	1.04	- {	clarity film, hopper cars, frt., ald	.37	-	Potassium-magnesium sulfate, sto bgs., works to	on 59.00	_	P) P)
Phenylacetic acid, pure cryst., 25-ib. cnsib. di-Phenylalanine, dms., 25-kilo	4.50	-	pallet shrink film, hopper cars, same basisb. extrusion coating, hopper cars,	.35	-	basis 40% K ₂ SO ₄ and 55' MgSO ₄ bulk, works to	on 67.00		P
lots	84.00	-	same basisib. g.p., hopper cara, same basisib.	.38 .38		Potassium metabisullato, gran., dm (.)	b 44	-	
dms. 200-lb. lots, divd. E lb. m-Phenylenedlamine, cast, dms., c.i.,	3.45	-	Polyethylene linear low-density g.p.	.36		K ₂ O, std., bulk, c.i	.,		P
c-Phenylenediamine, flaked, dms., t.i., t.o.b. works lb.	2.07 3.25	- 1	blown film resin	.40 .40		Canada to soluble, fine std., f.o.b.	on 44.00	45.00	ľ
p-Phenylanediamine, flaked, dms., f.o.b. worksib.	4.00	_]	tion molding, g.p., hopper cars, same basis	.45	i .48	Sask	on 49.00	47.00 50.00	ŗ
Phenylephrine hydrochloride, USP 100-kilo lots or more kilo.	175.00	185.00	line wire, CATV, power cable ib. wire and cable thermoplastic high-	.64		gran., f.o b. Sask	i0-	1	-
Phenylethyl scetate, dms ib. 2-Phenylethyl alcohol, NF, dms, ib. b-Phenylethylamine, dms., 30,000 ibs.	3.36 2.65	3.40	voltage, natural color, same basisb. wire and cable, XLPE low voltage,	70	.74%) malleri	on 277.00		1
or more, irt. aldib. Phenylethylphenyl acetate, 25-ib.	1.50	- 1	14% carbon black, same basis		/½ .72½	dlvd	on 470.00		1
cns	5.50	6.90	wire and cable (acketing, black lb. Polymyxin sulfate, USP, bulk, 50-billion	.58		gran., powd., 300-lb. dm., equald	írt. Ib. 2.54		
Phenylhydrazine, 99% mln., dms lb. 1-Phenyl-3-methyl-5-pyrazolone,	3.50	-	units minmillion units Polyoxyethylene sorbitan monos-		2 –	Potassium pentaborato, gran., bg c.l., works.	lb. 1.01		(
dms., 250-fb. lote divd. E fb. o-Phenylphenol, dms., t.i., works fb. p-Phenylphenol, logs., t.i., 40,000 lbs.	1.80 1.35	2.00	tesrate, dms., 20,000-tb. lots, works	78	3 -	dms., same basis	:. per lb. lilgh	er.	
ormore, worksb. Phenylpropanolemine hydrochloride,	1.85	-	dms., 20,000-lb. lots, workslb.		3 -	Potassium perchiorate, dina. c works	lb78	3 [
100-kilo dmkilo Phenylsalicylate, purit. cryst., dms.,	24.00	28.00	Polypropylene resin, homopolymer, g.p., nat., t.i., frt. alid ib.	.45	_	ing, bulk, hopper truel works	KS,	, <i>i</i>	Ì
E	2.75 2.25 2.35	= 1	copolymer, med. impact, net	.50		50-kg. dms., samo basis 150-kg. dms., same basis	ib. 1.20 ib. 1.17	j - j	
Phioxine toner (red 90), dms., trt.	1.95	2.05	high impact, same basis ib, Colored material 6c, per ib, higher for each grade.	53	3 .60	Potassium pormanganate, USP, 50- kgs., works, c.l., t.i.	.lb. 1.30	s – [•
Phosgene, 1-ton ret. cyls., 5 to 9-cyl. quantities, works b.	.85	.67	Polystyrene restin, cryst., nat., hopper oars, frt. alld	4	8 -	Potessium persuliate, 225-lb. dn 24,000 lbs. or more, i.o.b		, }	, []
Phosphate rock, Fla., land pebble, run of mine washed, 56-68% b.p.l. bulk c.l. mines ton	23.15		Impaci, nat., hoppercars, same ba- sis	5	i1 -	plant	:wl. 72.80		'
vesset Tampa, same basis ton Phosphoric acid, com'l. and tech.	28.00	Ξ	high heat, high impact, nat., hop-pe care, same basis		i2 -	bgs., c.l., t.l., works, E., equald 100	frt. ibs. 43.7	5 47.25 I	
grades, 75% tanka, works 100 bs.	29.00	_	grade, 1,000-ib. jota g modified, same basisit	o6 o7	39 - 73 -	Potassium sakcylate, USP, gran., 2	lbs. 46.00 200-	0 49.50	
80%tanks,works 100 lbs. 85% N.F. tenks, f.o.b. freight	31.00 33.50	-	medium viscosity, bgs., i.i.	i.		lb. dms., 2,000 lbs. or m works, irt. alld.	.lb. 1.59	2 -	
equald	yrade.	-	pertially hydrolyzed, medium viscos ity, bgs., t.i., divd	-		USP, powd., 300-lb. dms., 2,000 or more, same basis Potassium sticate, soin., 29.8-3	.lb. 1.41	2 -	ĺ
62-54% a.p.a., tanks, worksunit-lon	3.10	_	Polyvinyi chloride resin, g.p., homo polymer dispersion, bas., i.i.). L.	JO -	8e., 2.5 ratio, t.c., i	:.t	n _	
super, mkn. 70% a.p.a., same basis	3.45	_	g.p. suspension, bulk, same ba	bi B-	50 –	dms., c.l., t.l., works. 100 Potassium silicate, 40-40.5 Be., 2.	ihe 25 D		
Phosphorus, white (yellow) solid dms., c.l., works, int. equaldlb. tanks, works, f.o.b. works ib.	1.00	-	Dipe grade, bulk, same harte	b:	38 - 47 -	100, t.c., t.t., works 100 40-40.5 Be., 2.1 ratio, dr	lbs. 26.0		İ
Phosphorus oxychloride, tanks, frt.	40	_	film grade, bulk, same basis Potyvinyt chloride, g.p. copolymer d paralon, same basis	8-	37 .47 .5861	Potassium silicata, electronica on	erie.	5 -	
Phosphorus pentasuifide, powd. dms., c.i., works 100 lbs	50.00	-	g.p. copolymer suspension, san basis	ne Ih	.61 .45 .49	Cit., Works	bs. 26,1		l
tote bins, seliers 100 lbs Phosphorus pentoxida, dms., t.i. works	,	-	i Poppyseed, Dutch, bgs	So Ib	.40 - .36 -	t.i. works	C.I.,	_	
Phosphorus sesquisulide, dms., cvs. c.i., works			Potash agricultural (see Potassium r Potash, caustio, liq., 45% basis, tani works	ka.	LOO	. Works	رادان	A	
Phosphorus trichloride, dms., c.l. worksb	40	-	West Coast, 50% basis, tani	ks,	.00 -	Polessium elicofluoride box of	weight of 8	SO ₂ divided by	1
tanke, workeit Phinalic anhydride, fizike, c.l., t.l., ding	35		reg. 1989, 60-9276, 400-10, 0m8., 6	8.j., Ing 49	2.35 -	Potassium-sodium tartrate, NF.	lb, .1	111/2 .15 :	
frt. ëquald	ı27	.305	Works E	, (.). , (b).	.90 1.3	i Potasalum anchata i i dono chul	. b	80 1.20 20 3.10	١
Phihalmide, flake, works	365		Potassium bicarbonate, USP, on	. 115. En	.a118	Potassium stamate, cms., frt. aldo Potassium suitate, agricultural o min. 50% KgO std., bulk		là	ŀ
bbls., frt. alid. E. of Rockles ll green shade, same basis ll). 8.10). 6.40	8,50	Potasskim bichromate, gran., 400	. ID. Nih	.72 -	Potassium sulfate, gran, purif 40	. ION 150(D. II.	00 160.00	
resinated, bbls., same basis k	b. 6.20		dms., o.l., t.J., works.	·lb.	.48 -	cm,punt.40		88 -	ŀ

August 11, 1986

CHEMICAL MARKETING REPORTER

.45	49	Profession fetral virate, grant, 6gs , c.t. Winds Same base 1.10 - Rice brantoll, refined data. t.t	1.25	
80	1 20	Foliation tetrar crate powder 15c. perton higher Rochelle agit (see Potassium-sodium)	āt). artrate).	
8 00	20 00	225 to days 5 dm lots b. 4.01 Roofing pitch (see Coeltar pitch, roofing to the cryst days of the coeltar pitch, roofing pitch (see Coeltar pitch pitc		3990.0
1.06	-	Publishing Hundride seek 71% - Rosemary of NF. Spanish drist, kilo	2250.00 9.00	3000.0 14.5
1 12	-	tins 11. wisks, fri. equelds. 1.24 1.59 Tunisian, dms	8.75 .21	15.0
15 40 20 65		Production 10:00 thms 5 kins or		
32.50		Producedown neglate, USP, dris., 6		
38 40	•	bilitar more way to a fine the first term to a		
34.90 33.70	-	otic grade, das 2,000-b.		
.40	.46	Processory typic chooses, tot. alid lb. USF amount grade, ans. 1,000-	2.50	2.7
.1412	-	than 20,000-lb. lots, frt. alld. ib. Proportiable hyrke funks, 1 o b b 35% Saftower oil, non-break, tenks, N.Y. ib. Proportiable dms., N.Y., divd ib.	3.75 .47 .93	.5 .9
.30 .40	,	E b. 33 34½ Sage leaves, Dalmatian, No. 1, bgs. lb. n Propyl acouste, tanks, dad b .53½ Albanian, bgs lb.	1.76 1.30	-
		n Propyl dicelul 4, Laukin, dwol b. 42 44 Israell ib. n Propyl girtha dmn. 100 to 2,000 b. Sage oil, Clary, French, bots. kilo Dalmaldan, cns. b.	.80 90.00 9.50	10.0
05.00 1.12 .67	-	n-Propyl u tryfnaxyhenzoste, USP, Spenish, cns	12.50 3.60	-
.67 .87 sslum mu	riate).	tech : 500 kilos f o tr kilo 10.38 Salicytemide, NF, gran., powd., dms , Propyl p.traben (see n. Propyl p.trydroxyberzosia) 2,000-lb. fots, one ship lb. Propyl theoract, dms , 50 kilo lots or Salicytic acid, tech., dms , c.l., t.t.	1.07	1.1
.57	-	more kto 55.00 worksb. n-Propylamine, dms , c t , dfvdb75 to USP, cryst., dms., 1,000 lbs. or	1.23	1.4
.9315	-	Propytene, polymer grade, flo b. Yex. and Le Guit Coast points lib. 17th USP, powd., dms., 1,000 libs. or chemical grade some basis lib. 15th life more. lib.	1.33	1.6
1.32	-	Propyleno glycol, indust, tanks, flob ib 40 4i Saloi (see Phenylselloylete). USP, tanks, flob E ib 43 4i Salt, evaporated, common, 80-lb, bgs.	400	
1.40	1.42	Propylene oxide, tanks, file b works. Propylene oxide, tanks, file b works. Propylene oxide, tanks, file b works.	4.02 60.00 4.30	61.2
1.40 1.68	-	Int. equald bb 47% Salt. rock, medium, coarse, same ba-	2.70	00.0
1.45	-	Pumice, dom, fine, 4F-0, high ton lots ton lots mestion, 0': 1'-, high trailets ton 300.00 bulk, same basis ton Saltcake, dom., bulk, works, 100% NSO, basis, f.o.b. works E ton	18 00 65.00	25 0 98.0
		coarse, 2-uxtra coarse, bgs, ton ton 300.00 sandalwood of E Indian kilo Indonesia kilo	90.00 145.00 102.00	99.0
2.10 caustic).	-	lots for b East Coast Lon 280.00 - Sarcosine, tech., tanks, works, frt. equald	50	-
1 20	. 31	Co.isi ton 350.00 basis, works	2.59	-
1.29	1.31 12.39	Pyrazolnine rud (rod 38), dms	36.00 2.14	46 5
11.32	13.55	Pyrothrum flovors, hou gird 0.9° pyrothrum flovors, kustots it alid to 1.91 Selentum powd., 99.99% Se. dms.,	2 13 301:	
59.00 67.00	-	Pyrotinum, paint 20° pyrotinus, ill. 37.50 37.55 comi. 99.5% Se same barre in	13.00 10.00	15.00
.44	_	Pytidine, fuld. 2 deg. c1. works due. 5.90 Senna leaves, Alexandria, whole and half, bls	.75 .70	80
		Pyridoxing tydrochlorde, USP, 100 powd, 053, 0xs	90 1.00	.71 1.10 1.20
44.00	45.00	Pyritus, Camultum 48-50% S. minus: long ton 4.50 500 Sesame seed, Central American, hulled, bgs	.50	.51
46.00 49.00 50.50		Pyrogalio, 100 ib. (1765, 1,000 ib. 13.70 ib.)	.191) 1814	
267.00	_	Silice, amorph, dry-grd, bgs. c.l., works 93%, 200 mesh. ton 98%, 200 mesh. ton	31.00 32.00	32.50 33.50
277.00		93%, 97%, 325 mesh ton 98.5%, 325 mesh ton 99.5%, 325 mesh ton	34.50 37.00	35.50
470.00	-	400 mesh microstrad	51.50 72.00	54.50 75.50
2.54		Contradic chips b	79.50	82.50
10.1 90.1 Aghl .dj w	-	17.75 1900 Seca, hard-quartz 99.5% 910 375	104.00	105.00
.76		numbel, dart, fit alki lib. 17.75 1900 140 mesh, bgs., c.l., works. (co) violat, dara, fit alki lib. 17.75 Siscon letrachlorida lock.	37.00 34.75	-
1.09	ı .	P Cultikling auffato, USP, 1,000 oz.	.80 .36	-
1.20)	thin , 2,001) oz. is incru. oz. 2.46 29 Save nireto, ACS 500-oz. lota oz.	5.285 4.2188	-
1.38	B –	Cultiving time to the crueld lib. 149 Sosphark crushed bis	3.153 1.00	-
78.8		tanks, pario balas	1.35 120.00	1.85
72.5	0	light 58%, 100- ib., paper bgc., c.l.,	83.00	Ξ
43.7 46.0		Soda, caustic, kn. 50%	150.00 123.00	-
	a	79e 6Qual., 76% Na ₂ O Ion	176.00	195.00
. 1.5 . 1.4		R salt tech, 304 molecular wit		225.00 570.00
	•	250-500 kBos kBo 6.60 (75%,450-lb.dms.c.)		570.00
. 18.9 . 25.9 -		feed grade, 99% min., c.l., c.l	520.00 27.50	- 28 50
. 25.0		dms. kilo. 220-310 ton nigner for solid, and \$20-\$30 ton higher for solid, and \$20-\$30 ton	Prices in higher for	West 70 gran. a
. 32.0	_	Red precipitate (see Marcurio 0x00s, 1907 40 35 58 58 58 COpp.	3.35	3.85
. 26,1 . 33,1		Chird	.54	
53.3		or more, works. dec. 9.90 Sodaum algebras. No. works. 100- powd.dms., same beals the 1.000 as sodaum algebras. No. works. 100-	.57	· -
. 45.6 alght of (35 - 310 ₂ divided	by Shademine carl loner molybdated as 100-	6.00	6.75
), .1	11/2 .15	tungstated, PTMA, dms., I.o.b. 150 100 Sodium automorate, bgs., el., divd. E. lb.	4.73 1 49	1.50
١.	30 1.20	Shorting St. in cost	9.30	10.50
	IA	powd, bos	.70%	•.
n 160,	00 160.00	divel	.83½ .86¼ .89	·
j. ,	88	Riboffsvin, USP, 25 tilkos, (IVC) Riboffsvin 5-bhosphate-socium 26 18800 tohla, same basis. b. lib.	.85.	

e bran oil, refined dms. t.i	1.25		L Codhim blook prote 1100 and			والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع
incleic acid (see Castor of acids, sp chelle aalt (see Potassium-sodium t	At).	_	Sodium bloarbonate, USP, powd., grade, bgs., c.l., LL, works equald	t. fr}.		Sodium orthosilicate, tech., anhyd., bgs., c.l., works 100/bs. 34.50 -
ofing pitch (see Coaltar pitch, roofin se oil, nat., NF, Bulgarian, otto.	g.)		coarse, same basis 100 fine, same basis 100	lbs. 18.05	-	bgs., C.I., works 100/bs. 34.50 Sodium orthositicate, tech hydrated, flake, dms, c.I., works. 100 lbs. 27.45 bgs., C.I., works. 100 lbs. 27.45 bgs., C.I., works. 100 lbs. 26.25 Sodium pentschibrophenate, beads c.I., 30,000-lb min lb
botskilo. Turkish, otto., botskilo.	3650.00	3990.00 3000.00	gran., same basis 100 gran., fine, same basis 100	Jo 17 86	=	bgs., c.l., works 100 lbs. 26.25 - Sodium oxalate, 99%, bgs., t.l., works. ib45 -
semary oil, NF, Spanish, dms kilo Tunislan, dms kilo	9.00	14.50	Sodium bichromate, gran., bgs. c.l.,	ll., lb. 57	-	Sodium pentachiorophenate, baads o.l., 30,000-ib min ib
enone resin, 30-45%, 100-lb. dms. worksunit-lb.		.23	Sodium biffuoride, 400-lb. dms., (C.I., In 78	_	Sodium pentobarbital (see Pentobarbital-sodium).
			100-lb. bgs., cl., same basis	lh 74	Ξ	Sodium perborate, tetrahydrate, tech., bgs., c.l., Ll., works
			Sodium bisulfite, arrhyd, bos., c.l.,	lbs. 13.00	-	
			Works Wast 1001	lbs. 28.50	=	55-lb. bgs. same basis
			basis, works, East 1001	10% Ibs 20.60	_	Spoium phosphate, anhyd., dibasic
charin NF, gran , soluble, dms.	0.50		photographic grade, 43% so:	lbs. 20.00	-	equald
1,000-lb. lots, frt. alld lb. charin NF, powd., soluble, drns., less than 20,000-lb. lots, frt. alld. , lb.	2.50	2.75	Sodium borate NF, gran, bos., c	ibs. 21.90	-	Sodium phosphate, monobasic, tech., same basis 100 ibs. 55.75 Sorbitol, USP, reg. 70% aqueous,
lower oil, non-breek, tenks, N.Y ib. dible dms., N.Y., divd (b.	3.75 .47 .93	.50	powd., same basis.	.lb51	=	food grade, same basis, 100 lbs. 59.75 dms., c.l., f.o.b. shipping tribasic, tech., same basis, 100 lbs. 52.25 52.76 point
geleaves, Dalmatlan, No. 1, bgs. lb. Ibanian, bgs	1.76 1.30	.97 - -	Sodium borohydride, powd., dm 1000-5000 lbs. works.	th 10 89	21.90	food grade, same basis, 100 lbs. 83.25 _ Lanks, f.o.b. shipping point, . lb30 _ Chorinated same basis, 100 lbs. 33.50 _ Gran, dms., c.l. LL, works lb70 _ 74
iraeli	.80	-	Sodium borohydride, stebilized wa soin., 12% NeBH ₄ , 100% ba	ele		cryst., tech., same basis. 100 lbs. 30.50 _ powd., dms., c.l., t.l., works lb d8
almatian, cns	9.50	10.00	3000 gal. tankwagon, works Sodium thromide, 99%, gran., 400 dres., (.o.b. works	-4h.	-	usp, dried, powd., bos., dms. 35.50 Soybean oil (See Clis, Fats & Waxes market report.)
cylaldehyde, tanks, f.o.b lb cylamide, NF, gran., powd., dms	3.60	-	Sodium carbonate, decahydrate, b	KIS.	-	works
2,000-lb. lots, one ship lb. lcylic acid, tech., dms., c.l., t.l.,	1.07	1.10	Sodium carbonate, cryst. monohydi Sodium carbonate, monohydrati	rate tena Cada	, ash) ¯	Ib. dms., dry basis, divd Ib. 5.50
works	1.23	1.41	Sodium Carboxymethyl cellulose (se	ton 392.00	~	More, I.O.b. Int. alid
moreb. ISP, powd., dms., 1,000 lbs. or		1.63	f.o.b.works	.l.,	440.00	C.J. works, fit equald. 100 bs. 58.25 Spearmint oil, Far West, native ib. 14.00 15.00 Midwest, native ib. 14.00 15.00
more	1.68	-	C L works F	Λu	-440,00	Works, irr. equald 100 lbs. 61.25
t, evaporated, common, 80-lb. bgs., c.l., t.l., North, works80 lbs.	4.02	e. 50	Sodium chlonde, tech. (see Salt.)	ln 20	_	Sodium pyrophosobate, letrabasic St. John's bread adule bis in 30 30
bulk, same basis ton chemical grade, same basis, . 80 lbs it, rock, medium, coarse, same ba-	60.00 4.30	61.20	works tech., dms., c).l.,	1.27	annyo., tech., bgs., c I , t.l., 25tannic chloride, anhyd., dms., works lb. N.A. works. ft. equal of 100 lbs. 44.75
eie	2.70 18 00	25 00	t) works	G.I.,		bulk, hopper cars, same ba- sis 100 lbs. 42.50 Stannous chonde, anhyd, drns wks. ib. N.A
tcako, dom., bulk, works, 100% N ₂ SO ₄ , basis, f.o.b. works E ton		98.00	Sodium Chromate, tetrahydrate be C1,11, works	US No ca		footigrade, bgs., c i , i , same be sis 100 lbs 53 00 ti., works, frt equald. lb. 2.50 Sodium salicytate, USP, cryst., 200-lb. Stannous flueborate, liq., conc., dms ti., works, frt equald. lb. 2.50 Stannous oxide dms , works lb. N.A.
name basis W	90.00	99.00	dros cl. II. N Y	l-1b lb 1.0≤	_	dms 1,000-lb lots or more Stannous sulfate, dms , works Ib. N.A.
Indonesia		-	Sodium citrate, USP, gran , dihydra 100-lb, bgs., r.l., f.o.b. al	lip-		Works, Irt. equald
equaldb. laeller's salt, paste, dms 100%	50	-	ping point	ots,		Sodium sesquicarbonate, bulk, c l., i.i., Stramonium leaves, bgs
Dasis, works	2.59	-	Sodium cyanido, briquettes or gra	n	-	Section of Section 1 works 100lbs 198.00 _ Strontium carbonate, glass grd., bgs.,
100-oz. jois bots	36.00 2.14	46 50 -	99% min., 200-ib. dms, mi I.o.b. works	Ih CO	~	3 25 ratio, bulk, c,l., t,l., Sirontium nitrate, 50-15 bgs., c.l., works 100 bs 15 70 works 100 bs 51 50
urif . bgs., c.i., works	2 13 3012	-	Sodium diacetate, anhyd , dms., c works Sodium diacetate, FCC, 50-lb, bg:	lh an	-	bgs., c.l., t.l., works 100 lbs. 27 75 _ Styrone manamer, 99.6% min., t.c. 1.95-2.00 ratio, bulk, c.l., t.l.
anium, powd., 99.99% Se. ums., divd. ili. pml. 99.5% Se. samo basis. Ib.	13.00	-	11 divd E of Rockies	ib .61	.67	works
na leaves, Alexandria, whole and half, bis	10.00	15.00	c I., works	lb 52	-	soin 37.6° solid, 3.22-3.25 Cryst., bulk, same basis ib
innevelly. No. 1 . dis	.75 .71 .90	.71	or mixed (.l., f.o.b. shippin point	na	2.05	equald
BMB SBED. CENTRAL AMERICAN	1.00	1.10 1.20	Prices W. of Deriver 2c. per pound Socilium ferrocyanide, bgs. r.i	higher	2.85	Sodium allicofluoride, bgs., c.l., t.l., Succinic anhydride, dms., c.l., t.l., f.o.b.
nna pigment, burnt, paper lige	.50	.51	works	h ຄາ	-	works, Int. equald 100 lbs. 17.95 19.75 Sodium shannate, dms. wks. fn, and E.lb N.A. Sucrose, reld., white, bgs., c1, 1o.b.
W. Paper bon Let works by	.1915 1814		Sodium fluoride, white, 97%, 400-ii	ს 1.77 ს.	-	Sodium sulfamilate, dms. works ib. 22 refy. E 100 lbs. 33.10 - Sodium sulfate, NF XII, powd., dms., 2,000-lb, lots ib. 231 ₂ dms., t.l., divd ib. 1.18 -
a, amorph, dry-grd., bgs., c.l., works 93%, 200 mesh. ton 98%, 200 mesh. ton 93%, 97%, 205	31.00	32.50	dms., c ł , works, (rt. equald i 100 bgs., c ł., same basis ii	b. 60	-	2,000-lb, lota lb
98.5% 325 meeh ton	32.00 34.50	33.50 35.50	USP powd., 200-lb. dms., t.l t.o.b. shipping pointli	b. 469	_	Sodium sulfate, West, bulk, c.l., works, Sucrose octa-acetate, denaturing fit equald
dry-grd., pas Cl. worke do or	37.00 51.50	54.50	Sodium formate, bgs., c.l., works il Sodium gluconate, tech., 50-lb, bgs 2,500 lbs. or more int. alid il	3	-	bulk, cl.l, East, same basiston 113,00 114,00 works
59% under 15 microns mi	72.00	75,50	Sodium hydride, oil dispersion, 609 Nal-1, 167-ib. dms., 10 dms	%	-	bgs., c.l., works ton 47.00 53.00 Sulfabenzamide-sodium, dms., 500 kilos
99% under 10 microns mi	79.50	82.50	works	1 1 44	-	dms. c.l., works, frt. Sulfacatamide, USP, dms. 500 kg. 20.00 23.50
s. hard-quartz 99.5% QIO 335	104.00	105.00	accium nyarosullite, dins., c.i., 1.i.			liq., 44-46%, tanks, works, frt. equald
140 mesh bas Cl. Works lon	37.00 34.75	Ξ	f.o.b. shipping point E ib Sodium hydroxide, USP, pellets, 100 fb. dms., c.i., t.i., works, fri	ĵ	•	E. frt. equald ton 470.00 - Kilos
works	.50 .36		equald)95 Buelic.)	.98	bgs., same basis
W buffer Innet	.36 5.285	_	ib. dms f.o.b. works , ib.	. 1.425	1.50	Sodium suffite, snityd., tech. 95-100%: Suffamethazine-sodium, USP, powd. oms., 50 kitos kito. 13.00 -
100 april 22 Action of Action	4.2188	-	110 lb. dms). 1.47 เมืององ	1.52	Sodium aulfocyanide CP (see Sodium thiocyanate). Sodium tetraborate (see Borax). Sulfarnathazine, powder, dms., 500 Idioa
pbark, crushed, bis	3.153 1.00	-	Sodium lodide, USP, cryst., 300- to 500 lb. lots, drns, frt, equaldlb	. 14.72	_	Sodium tetrasulfide. Eq. 34%, dms., Sulfamic acid, cryst., bgs., c.l., t.l., c.l., works., frt. equaldton 540.00 works
bos cl. wester 100-lb., paper	1.35 120.00	1.85	Sodium lauryi suitate, 30%, tenka f.o.b. works	90.	.32 .	Socilum thiocyanate, purit, cryst, 250- lb. dnis., 5 dms. or more Sulfamic scid, gran., dms., p.l., t.l., works
ht 58%, 100- lb paper bear	83.00	Ξ	Sodium ligrin sulfonate, bgs., c.i. works, 100 bs	. 25,50	-	f.o.b. works
bulk c.l. same been	150.00 123.00	-	Sodium metabisulfite (see Sodium bisu Sodium metaborate, ootahydrate, gran., bgs., c.i., works ib.		'	Sodium triosultate, tech., photo- grade,
Gulf Coast works, f.o.b., frt.	120.00	_	tetrahydrate, gran, bgs. c.i., worksb.			works, frt. equald
73%, same basiston.		195.00 225.00	Sodium, metalik, 12-lb. bricke, dms., c.l. works			oryst. pentamydrate, o.l., t.l., same sale. Sulfur, crude, bright, mohen, dom., f.o.b. vessels, Gulfports long-ton 150,00 – f.o.b. La. refy tong-ton 126,50 – f.o.b. La. refy tong-ton 126,50 – f.o.b. La. refy tong-ton 126,50 – tong-tong-tong-tong-tong-tong-tong-tong-
101. 78%.700-lb.dms, c.l.	500.00	570.00	lused, dms. 24,000-lb. lots or more, works		_	Sodium trichlorgacetate, 95%, 50-lb. recovered, avc., Houston, long-ton 125.50
en., 75%,450-lb.dms,c.l.	520.00	570.00	lanks, worksb. Sodium melaphosphats, tech. bgs.,	.70	.80	Sodium utpotytificaphate, tech., bgs., c.l., (I.O.b. tarvits, Attentia, Canada, for US
works 400 lb. dms., c.l.,		-	o.i., f.o.b. shipping pt. frt. squeld 100 be.	61.50		food grade, bigs., c.l., LL, same be-
tor fig. rayon-type, \$15 ton higher higher for solid, and \$20-\$30 ton beads.	27.50 Prices in	28.50 West 70c.	food grade, bgs. o.l. f.o.b. frt. equald.	68.25	` ` '[.	8s. 100 lbs. 48.60 flour, 50 lb. bgs. c.l. mines basis
88/. con-	i nigher for	gran. ano	Sodium metasticate, anhyd., bgs., c.i. works100 lbs.	27.28 · ·	<u>-</u>	dmd. 10,800 jbs. or more, (rt. slid
um arous	3.35	3.85	bulk, c.l., works 100 lbs. pentahydrate, bgs., c.l., f.o.b. ship-	1		more, same basis
"III (Calada Lica Ass	.54		ping point	17.20	: FA . A	styst, dns. works
dom and NF, white powd.	.57	· - .	Sodium molybbate, enhyd., dms, t.o.b. works, 100 lbs and overib. cryst., dms., t.l., same basisib.	4.12	100	Software regulated the control sulfate the con
b. lots	8.00	6.75	Sodium naphthionate, dms.; c.l., t.l., f.o.b. works	2.00	Sugar A	Bullut, rubbermakers, 69,6% min. pu- lech, dma, any quantity, works, ib. 16 + its, comi., rag., 50-ib. bgs.
mantiments the	4.73	_	Sodium Nitrate, USP, bgs., c.l., f.o.b., frt. equald 100 lbs.	34.50	- , [Bromaing, d.f., 320°-330°F.
	149 ,	1.50	Godium nitrate, dom., industrial, pgs.,	284.00 29	2.00	New Jersey
	9.30	10.50	Cond one Mother I		# 1 M	Housion 1.41 square basis b. 24.44 tanks, same basis b. 1744
CL, LL, frt, alld	,70%	· · · · ·	Gulf whise	182.00	''''	Solvent nachiha, petroleum, straight aromatio, b.r. 360°F. Sulfur citokide, 6g., comi. multi-uhit. 1.0°F. 60°F m.s.p. tarke: New Jersey:
O-b dansis.	.83½ .88½ .89	. .	imp., comi., 100-lb. ogs., c.i., Al., or Guit whse. ton bulk, c.i., same basis. Non. imp., sgrioultural, dulk, a.i., same basis. Sodium nitrie, USP, dins., cl., works., 100 iss.	140.00		Houston
	.85 .88	- [tri sokiald:	37,25	$\sum_{i=1}^{n} \frac{1}{i}$	Sorbit acid, t.I. (41)a., divd
		jie ta	医多种性性 医神经神经 医甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	175 663	Υ	August 11, 1986 CHEMICAL MARKETING REPORTER 39

WEEK ENDING AUGUST 8, 1986

NOTE: For prices on 60 and 66 Be., multiply by .7767 and .9319, respectively. For price of 20% furning cleum, as is, add \$3-\$4 to above prices and multiply by 1.045.

85.00

60.00

84.00

84.00

70.00

135.00

1.40 1.59 1.87 1.20 12.00

1.35 1.10 2.40 1.35 4.50

.3014

1.70

shydrofurfuryl akohol tanka, f.o.b. Memphis, Tenn. ib.

nydrophthalic anhydride dms. c.i., t.i. i.o.b. works. lb.

otassium phosphale (see Potassium phosphale, tetrabasic). sodium pyrophosphale (see Sodium pyrophosphale,

Tetrahydrolinalool, syn., dms. Ib.

1.50

1.50

2.05

.23

65.00

Sulfuric acid, virgin 100% tanks, works.

East Coast ton Gulf Coast ton

83%, tanks, divd. Northwest, ton

ranseed oil, crude, f.o.b, Min-

Superphosphate, triple, 46% or more

Thorium nitrate, purif., dms., 100-lb.	2.75	_	Turpentine, crude sulfate tanks, f o b Southeast works gal	70	
di-Threonine, dms 10 kilos wks kilo. Thyme leaves, French, bgs lb.	128.00 .90	_ .95			-
Spenish, bgs	.68 20.00	1,10	∖∎₽		
NF, white, drns kho Thymol. NF	22.00 3.76	6.15	U		
Thymol lodide, drns., 100-lbs. f.o.b. works	52.30	58.20			
Tin metal (NY composits)	N.A. .73	.74	Ultramarine blue pigments, 550-2,000 lblots, works	1 30	
siumy shipments, 50-ton lots, dry ba- sis, frt, alidb.	.72	.74	violet, same basis	2 20	
Titanium dioxide, rutile, reg., bgs., 20- ton lots, frt. alid	.78	_	raw, American, dom., bgs., l.c.l., same basis	.1315 1315	
siumy shipments, 50 ton lots, dry basis, frt. alid	.80	_	Undecylenia ackl, dms., workslb Urea, 46% N, ind., bulk, 50-ton c l.,	2.70	
Non-chalking rutile material costs 1c. po Titanium hydride powd. electronics	er pound m 26.50		divd	200 00	220
grade, dms	.30	.35	west	200 00 210 00	215
200-gal cylinders c.l., same basis ib. Titanium sponge, 99.3%, fiber drums,	.60	-	Uva-Ursi leaves, bis	22	
less than 5,000 lbs. f.o.b. wkslb.	4.85	-	 \ 		
Toblas add, 2,000 lbs. or more lb. d-a-Tocopherols, 87%, drns kilo d-a-Tocopheryl acetate, 81% conc.,	2.45 50.08	-	! V		
dmskilo d-a-Tocopheryl acid succinate, cryst.,	5 7.49	-			
drns	78.44 27.40	-	Valerian root, Belgian, bgs ib. indian. bgs ib.	.65 .45	
di-a-Tocopheryl acetate, USP 50-kilo dm. 1000 kilo min	16.00	18.50	Vanadium oxytrichloride, 3,000 lb. cyls., workslb.	5.40	
50% dry powd., 50-kilo dm kilo Tolu balsam, cns	17.00 7.60	8.68	Vanadum pentoxide, tech., gran., per tb. of V ₂ O ₆ , 550-tb. dms., works ib.	4.10	
Atlanta, Ga., divdgal. Bayonne, N.J., divdgal.	1.35 1.32	-	lused or flake, per lb. V ₂ O ₅ , 550- lb. dms., works lb. Vandyke brown, bags., Ll., Irt. equald. lb.	3.35	;
Baytown, Tex., f.o.b gal. Chicago, Ill. divd gal.	1.37 1.2823	-	Vanilla beans, Madagascar ib. Java, tina	.27¼ 37.00 27.00	3
Clairion, Pa., f.o.bgal. Deer Park, Tex., f.o.b gal.	1.15 1.37	-	Vanillin, USP, dms., 1.o.b works lb.	6 25 4.75	Ū
Ft. Wayne, Ind., divd gal. Gulf Coast, apot, barges gal. Houeton, Tex., divd gal.	1,34 .58 1,22	.60	Versinol Ag	.64 60.50	
New Jersey Metro, divd gel. Philadelphia, Pa., divd gal.	1.32 1.28	-	extra	63.00 16.00 23.00	1
Providence, R.I., divd gat. Toluene di-isocvenate (mixed isomers)	1.35	-	Java	31.00	•
80%, 2,4- and 20% 2,6- isomers, jumbo tankcars, divd ib.	1.01	-	tungstated, PTA, dms	6.20 10.40	
p-Toluenesulfonamide, powd., dms., t.l., worksb. m-Toluktine, tech., bulkb.	3.55 3.10	_	Vinyl acetate monomer, tanks, divd. ib. Vinyl chloride monomer, polymer	.39	
o-Touldine, tech., liq., dms. c.i lb.	.72 .60	.75 .64	grade, tanks, f.o.b. works ib. Vinyl ethar, USP, aneathesia, 75-co. bots., hospitals	.28 1.56	
p-Toluidine, tech. cast solid,dms., cl.,worksb.	1.80	1.85	2-Vinylpyridine t.i., dms. works kilo. tanks, works	7.81 7.61	
Liq., tanks, same basis	1.70 1.95	-	Vitamin A, synthetic, dry, pharm., 500,000	.67	
Totuldines, mixed, o-m-p, tech., liquid, c.l. f.o.b. works b.b. bulk same basis ib.	1.03 .95	-	A units per gm., 50- kilo, lots. kilo Vitamin A, liq. in oil, pharm., 1,000,000 A units per gram, 10 kilo lots. kilo	33.00 41.00	
Cincinnati, Ohio	2.90	_	Vitamin A, feed grade, 650,000 units per gm. kilo.	18.70	,
Tonka beans, Angostura, prime, 1,000-lb.lotslb.	6.50	_	Vitamin B., (see Thiamine hydrochloride) Vitamin B., (see Riboliavin a).	
Toxaphena, dms., c.l., t.l., works lb. Tragacanth gum, No. 1, ribbons, cns. lb.	.38 36.00	40.00	Vitamin B ₁₂ , cryst., non-sterile, USP (cyanocobalamin), vials, 50-	0.00	
fisked powder ib. Triacetin tanks, divd. E ib. Tributyl citrate, t.l. drums, f.o.b.,	12.60 .75	15.00	gram, lots	8.00	
Tributyl phoaphate, tanks, works ib.	1.70 1.65	1.77	cium phosphate, 25-kifo dms. kilo. Vitamin B ₁₂ , 0.1% trituration of cryst.	10.75	
Tributylamine, dms., c.l., divoib. tanks, same basisib.	1.39 1.33	-	15 ₁₂ (cyanocobalamin USP) with mannitol, 25-kilo, dmskilo.	15 80	
Trichloroacetic acid, tech., 300-ib. dms., c.i., f.o.b., works ib. USP, 100-ib. dms., frt. equald ib.	.94	-	Vitamin B ₁₂ , cobalarrin concentrate NF with mannitol 1,000 mcg, par gram, dms, per gram activity	19.45	
1.2.4-Inchlorobenzene, pure, tanka,	.99½ £11%	-	Vitamin B ₁₂ , 1% Vitamin B ₁₂ , USP, ab- sorbed on resin, 5-kilo dms., 500-		
1.1,1-Trichloroethane, tanks, con- sumers, divd	.401/2	-	gram lots, irt.alid. per gram activity Vitamin B ₁₂ , 1% cobalantin concentrate.	y 15.65	
1.1,2-Trichloroethane, tanks, f.o.b. works	.42	_	NF, absorbed on resin, 5-kilo dms. frt. skil per gram activity. Vitantin B ₁₂ , 1% cyanocobalomin in	15.40	
Trichloroethylene, tanks, divd. ib. Trichloroisocyanuric acid, dms. ib. Trichlorophenoxyacetic acid (see 2.4,5-1	.38½ 1.25	-	golatin, 2.5-kilo dma., frt.	15.40	
dms., 1,500-lb, lots, dwd lb	1.35	_	Vitamin C (900 Ascorbic noid). Vitamin D (see Cholocatellarob		
Tricresyl phosphate, tanks, t.o.b.	1.56	1.60	Vitamin D ₁ (see Codifiver and Fishliver of Vitamin E (see a-Tocopherol and Whoal Vitamin H (see Blotin).	ila). I germ oil).	
Tridecyl atcohol, mixed isomers, tanks, divd	.57		Violet methyl toner (see Methyl violet to	ner)	
Triethenolamine lauvi sulfate, tanks	.45 .45	.48 .48	111		
Tritethylamine, dms., c.l., divd., b.	.27¼ 1.33	.27½	W		
Triethyl citrate, t.l., drums, f.o.b.	1.20	-	44		
works ib. Trietinyl phosphate, tanks, divd ib. Trietinylene glycol, tanks, f.o.b. Gulf ib.	1.82 1.15 47	=	Warfarin 0.5%, dms., ton lots, frt. alid.		
Lo.b. works	.47 .29½	-	Wheat germ oil, cold-pressed and	.75 16.50	ı
equald.	.35	-	White precipitate USP, power 100-lb	14.00	
Tri-iso-totyl trimelitate, f.o.b. works ib. Tri-isobutylene, tenks, civrt	1.43 .51	1.45 .55	Whiting (see Calcium carbonate). Wintergreen of the (see Methyl collection)	7.892 Isto\	!
eld E.	.45 .57%	-	leaves, bis	1.35	
equald., 100%	.54%		325 mesh, bos., c.l. works ton	134.00	
basis	.63%		Wollastonite, t.l., f.o.b., productor	164.00	
basis	.564	.57	plant. general grade ton 325 mesh ton 400 mesh ton	200.00 140.00	1
dos (ob works	.73 1.50	-	Wool grasse 1 190 /ggs 1 applies ton	600.00	
Triphenyl phosphale, dos. 11 (.)	1.00	Ξ.	Wormwood oil, cnab.	f) 31.00	
Tripropylene glycol tanka, frt. alid.		.78	V	-1100	
Tris-(hydromathyl) nitromathane, solid, t.l. works		-			
t.i. works	.605 aphale, trib 62.00	86ic) 85 00	A		
Tungok, tanka, imp. New York b. Tungatic acid 92% of the 1750	.34	65.00 .39	Yantha	· ————————————————————————————————————	
Turmeric, Aliappey		- .70	Xanthan gum, food S00-lb. dms., f.o.b., works	5.6B	
PORTER August	11, 1986	- 1924 - 1924	ind., grade, same basisib.	4.54	

rpentine, crude sulfate tanks, f o b			Xylono, potroleum, ind. or nitration, tanks		_
Southeast works QA	70	80	Attance, La Lub gal. Attanta Ga, divid gal. Bajasani, N. J., divid gal. Bajasani, N. J., divid gal.	1.08 1.35	
			Baldwan Toy Lon gal.	1.36 1.31	•
			Clarten Pa	1.40 1.36 1.33	
U			God Coast Spot barnes	1.22 1.37 .75	:
itramarine blue pigments, 550-2,000	1 30	<u></u>	King to Delivering and or second	1.25 1.36	-
violet, same basis	2 20	-	Crowlence R. and gol. 1	.36 .42	-
equaldb raw, American, dom., bgs., l.c.l.,	.13\7	15%	ni Xyluno, luch bendu tarke Lak	37	-
same basis	.1315 2.70		O Avieno truka din	36 12 <u>5</u>	- .146
	900 00	220 00	works and the control of the control	.195 .70	•
west	200 00 210 00	215 00	Works	1.50	_
a-Ursi feaves, bis	22		Kythdraen, munich, comp., dnis., c.t., tt., fob-works	1.00	-
M			\ /		
			l V		
<u> </u>			│ 		
lerian root, Belgian, bgs ib. Indian bgs ib.	.65 .45	85 -	Yara yara 25 lb cos b.	2.81	-
nadium oxytrichloride, 3,000 lb. cyls., workslb.	5.40	-	Yeasi, gave brower, 5 detailered, RF, Sec- charomyces, till flob works, ib	1.10	-
nadium pentoxide, tech., gran., per ib. of V ₂ O ₅ , 550-lb. dms., works lb. lused or flake, per lb. V ₂ O ₅ , 550-	4.10	4.94	Yerba, santa leaves, bla lb extra, bots lb. Ylang-ylang od extra grade lb.	2.40 26.50 23.93	31.7
ib. dms., works ib. Indyke brown, bags., Ll., irt. equald. ib.	3.35 .2714	3.65	grado 1b. grado 2b	19.09 15.90	
ınlıla beans, Madagascar lb. Java, ilns	37.00 27.00	30.00	grado 3 ib.	13.04	_
nillin, USP, dms., 1.0.b works lb. np., dms lb. rsinol Ag	6 25 4.75 .64	5.00			
tiveryi acetate, dma	60.50 63.00	=			
ilver oli, Bourbon, dmsib. Haltien	16.00 23.00	17 00 24.50			
toria blue toners, molybdated, PMA dms	31.00 6.20	- 6 30	Zein, bgs., 2,000-lb, lotslb Zinc acotale, NF, dmslb.	7.50 1.00	9) 1)
ingstated, PTA, dmsb. I acetate monomer, tanks, divd. ib.	10.40	-	tech dhydrate bgs 1.1, works lb Zinc borate, tech 43% ZnO, 37%	1.60	ï
yl chloride monomer, polymer grade, tanks, f.o.b. worksib.	.28	-	B ₂ O ₃ ,50-lb bgs ,20,000-lb.11, 1.o.b. works	55	
nyl ether, USP, aneathesia, 75-co. bots, hospitalsbots. Vinylpyridine t.l., dms. workskio.	1.56 7.81	-	cryst . 37% ZnO, 49% B.O., 250 fb drns 20,000 fbs tt fo tr wks lb Zinc chlorkie, USP, gren, drns	.69 9.79	
tarks, works	7.61 7.67	_ .73V₂	tanks, fob. Clevuland,		
amin A, synthetic, dry, pharm., 500,000 A units per om., 50- kilo, lots, kito	33.00		Obles 100 lbs	20.20 20.20 20.20	
itamin A, IQ. In oil, pharm., 1,000,000 A unita per gram, 10 kilo lots kilo itamin A, feed grade, 650,000 units	41.00	-	Concord. N.C. 100 bs Freeport, Tex. 100 bs. Okt Bridge, N.J. 100 bs. 65 degree, same birsts Cleveland.	20.20 20.20	
per gm kilo. amin B, (see Thiamine hydrochlorido).	18.70	23.85	Olsio 100 lbs.	27.90 27.90	
Vitamin B ₁₂ (seo Riboflavin år tamin B ₁₂ , cryst., non-sterile, USP	nd Yeast).		Old Bridge, N.J. 100 bs 70 degree, same basis Cloveland,	27.90	
(cyanocobalamin), vials, 50- gram, lots gram tanin B ₁₂ .1% trituralion of cryst. B ₁₂	8.00	9.75	Ohio 100 lbs Corr.ord NC 100 lbs Okt Bikkip, NJ 100 lbs	29.70 29.70 29.70	
(cyanocobalamin USP) with dical- cium phosphate, 25-kilo dms. kilo.	10.75	12.75	1 /2 Mentana carra back Chicolano	33 20	
amin B ₁₂ , 0.1% trituration of cryst. B ₁₂ (cyanocobalamin USP) with mannitol, 25-kilo, dms kilo,			Ohio 100 lbs. Concord, MC 100 lbs. Ohi Bridgo, NJ 100 lbs. Zate chromato, kps. divdb. Zoe cyanido, durs .e.t	33 20 33.20 1.12	
marinio, 25-kilo, dm5kilo, amin B ₁₂ , cobalamin concentrate NF with mannitol. 1,000 mcg, par	15 80	-	Zate chromate, begs. alvel	1.65	1
gram, dms, per gram activity min B ₁₂ , 1% Vitamin B ₁₂ , USP, ab-	19.45	-	Forh plant	.69	
sorbed on resin, 6-kilo oms., 500- gram lots, irt.alid. per gram activity amin B ₁₂ , 1% cobalamin concentrate,	15.65		8 4% Zn., runngada salt sola. Le. t. L., fo.b. warks lb.	.56	
Mr. absorbed on resin, 5-kilo dms. frt. skil, per gram scholy.	15.40	_	9% Zn., animenia saltaola., t.C., t.t., f.o.t. works	.48	
qolatin, 2.5-kilo dma., fri.		=	works, frt. equald	.88 .44	
alld	15.40		Zine rughtherrate, kg. 8% Zu, dms., divi Zuschtrate tech., flake 300-lb dms., lb.	.95 .34	
tamin O2 (860 Codiiver and Fishkver olif tamin E (860 a-Toconhard and Whoat 4	S). Qerm alli		/ lin: Oxkla pikata carkiudivo, ng5., G.i	-	¥. J
Itamin H (see Blotin). lolet methyl toner (see Methyl violet ton			frt. alld	.46	, 1
		التسميد	Zinu oxkin piyment, American process, load-free bris., c.l., frt. ald 20.	.40	
M			Zino oxido pigment, French process regular, bgs., c.l., irt. alidib. Zino photolsullonato, puril., gran.,	41	•
			Zinc photoisvilonate, puril., gran., 250 lb. dms., 1.1, frt. alid lb. Zinc pyridinginione, 48% dispersion,	- 10	1 4
Vertigation 0 694, element the state of the			dins., f.o.b. works	14.50	Ġ
arfarin 0.5%, dms., ton lots, frt. alid. New York or Chicago ib. freat germ oll, cold-pressed, gal.	.75 18.50	47.24	Zinc resinate precip. 7.2-7.6% Zn., dms., fri. alid	.45 47.	
COID-DOCGREEN and	16.50 14.00	17.50	Zinc alcorate 1182 bulk 11	.92	
hite precipitate, USP, powd., 100-lb, dms., f.o.b. works	7.892	2 11.24	Zinc sulfate, gran. monohydrate, in- duat. grade 36% Zn., bgs., cl., works.	26.50	
Vitch hazel bark, bis	1.35	-	agricultural grade powd., bulk, same basis 100 ibs.		r. Ž.
400 mesh, bgs., c.l. works ton 325 mesh, bgs., c.l. works ton	1.75 134.00 117.00	-	Zinc yellow (see Zinc chromale). Zinc-ammonium chloride: b08:, 0-4:	42	r;
Vollastonite, t.L. 1.0.b. producing	164.00	-	WORKS.	4,07	740
325 meshton	200.00 140.00	141.00	Zinc Informaldehyde sulfoxylate, besto 200-to, drns., frt. alid	185.00	1
Nool orease, 1992 (see Length)	160.00 600.00	=	Zircon milled bgs., 200 and 325 mesh. c.l. works.		
Vormseed oil (see Chenopodium oil, NF Vormwood oil, cnsb.	31.00	36.00	Zirconturn scetate soin., 25% ZrO, dris. o.l. 30,000 be, min., works. 18,		
V			Zirconium hydride, powd., electronic		وران دارو
•			Zirconium cadda, powd., comi., dma., 2,000 lbs. min	465	
Λ :		•	RIGHTHOUSE, PRODUCTOR, OND.	725 3.31	44 4 ***
Xanthan gum food goo is			Insulating, unatablized, 325°P salts	3.85 2.82	
Kanthan gum, food 300-lb. dms., f.o.b. Works	5.6B	6.20	Zirconium oxychloride, liq., cina. 6-ton	91	<i>.</i> /1
g-cas, amile basis, iO.	4.54	-	i lois, works.		
		1.30 11 1	しんごうし しょうしんれてん しんはばりがき		-

US imports of chemicals and related materials are reported in this section by CPI masterial. Listings include consignee where possible, container, net weight, name of vessel (in parenthesis), port of origin and date of shipment's arrival in New York or the Port of Newark.

US chemical imports/exports are tabulated monthly in the market reports.

2 AMINO 4 CHLORO 5 NITROPHENOL Order 50 dms (11,490 lbs) (Ming Glory) Kobs. 6/25. 2 AMINO 6 METHOXY BENZOTHIAZOLE Order 4 dms (1,448 lbs) (Ming Glory) Kobe, 6/23. 2 CHLORPYRIDINE Max Gruenhut 12 dms (6,931 lbs) (Aliantic Service) Rotterdam, 6/24, 2 ETHYLHEXANOIC ACID Order 1 tnk (39,374 lbs)

(Starfield) Antwerp, 6/26.

2 ETHYLHEXANOL Order of Shipper 1 bks (2,204,084 lbs) (Stephania) Rotterdam, 7/8.

2 METHYLENEGLUTARONITRILE Yuks Fine 46 dms (22,615 lbs) (Ming Glory) Kobs. 6/23. 3 AMINO 4 METHYL BENZAMIDE Order 17 dms (2.456 ibs) (Ming Glory) Kobe, 6/23. 312 MALACHITE GREEN CRYSTALS Penson 120 dms (7,831 lbs) (American Kentucky) Kobe, 6/24. 4 AMINOAZOBENZENE 4 SULPHONIC AC Monlectison

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4 AMINOAZOBENZENE 4 SULFTIONIC AC MONIECISON 70 dms (23,422 lbs) (Ming Glory) Kobe, 6/23 44 DIAMINODIPHENYLAMINE 2 SULFONICA Berno Shpg 20 dms (6,504 lbs) (Ming Glory) Kobe, 6/23. ABS RESIN NATURAL COLOR Order 42 plt (96,297 lbs) (Ever Gather) Kaohalung, 6/25, ACCEL BUR F & VANPLAST 3S R T Vanderbilt 1,100 kgs (49,471 lbs) (Hanjin Yokohama) Yokohama, 6/25 ACETAL FOLIEN Leschaco 23 plt (33,768 lbs) (Stuttgort

Express) Rotterdam, 6/24.

ACETATE DL ALPHA TOCOPHEROL Rhone Poulette 54 dms (27,818 lbs) (Atlantic Service) Lo Flavro, 6/24 ACETATE LINALYL, Order 79 dms (33 614 lbs) (Atlantic Service) Lo Flavro, 6/24 ACETATE LINALYL, Order 79 dms (33 614 lbs) (Atlantic Service) Lo Flavro, 6/24

ACETATE LINALTL Urder 19 oms (33 013 03) (AMERICA Service) Le Havre, 6/24. ACETOGUANAMINE James E Fox 720 bgs (40.318 lbs) (Ever Laurel) Hamburn, 6/22. ACETOPHENONE Wolf D Barth 76 dms (37,258 lbs) (Ever Laurell Rotterdam, 8/22,
ACETYL AMINOPHENOL Rhone Poulenr, 360 pkg

(42,253 lbs) (Allantic Service) Le Havre, (724 ACETYL PARA AMINOPHENOL Rhone Poulonc 1,440 pkg (170,349 lbs) (Atlantic Saga) Le Havre, ()/10 ACID ASCORBID ITEM Order 40 cm (71,870 lbs) (Atlantic Concert) Liverpool, 6/24.
ACID BORIQUE Rhone Poulenc 360 bgs (40,000 lbs)

(Ever Laurel) Le Havro, 8/22. ACRONAL S 702 Grace Intil 152 dois (78,616 lbs) (Starfield) Antwerp, 8/26.
ACRYLAMIDE POISONOUS SOLID IMO 6 Order 4,320 bgs (248,097 lbs) (Ever Laurel) Rotterdam, 6/22.
ACRYLAMIDEMETHYLENBISACRYLAMIDEM Mitsui 80 dms (21,517 lbs) (Ming Glory) kobo, 6/23.
ACRYLIC & METHACRYLIC ACID RESIN Mobil 80 dms

(40,038 lbs) (Ming Glory) Yokohama, 6/23 ACTIVATED CARBON Doguesa 800 bgs (26,984 fbs) (Sultigert Express) Bremerhavan, 6/24.

AEROSOL HARMLESS Degussa 610 bgs (26,186 lbs)
(Dart Continent) Bremorhavon, 6/24.

AGAR AGAR Harold Popper 80 dms (9,700 lbs) (Ever Gather) Osaka, 6/25.

Pier Air Intl 50 bgs (4,440 lbs) (Stuttgart Express) Hantburg, 6/24.

Pier Air Inti bu Dgs (4,440 lDs) (Statistics 1,270 lDs), 6/24.

ALKYLAMINE TRIDECYLAMINE Haniol Phoenix Transport 16 bri (0 lDs) (Sea Land Develope) Bremer-haven, 6/26.

ALPHA PHENYLGLYCINE Chemical Dynamics 100 dms ALTIA PHENYLGILYGINE Chonical Dynamics 100 ome (12,015 bs) (Holds) Rottardam, 8/24. ALMINUM FLUORIDE Silvay Shpp 18 pit (37,829 lbs) (Zim Iberia) Osqkn, 6/24. ALMINUM OXIDE Trottarcher 2,100 bgs (236,642 lbs) (Dart Cantinont) Bromothavon, 6/24. Degussa 6 bks (300,444 lbs) (Zim New York) Barcotons, 6/28.

ALUMINUM PASTE Gardner Ind 180 clms (45,636 lbs)

(Sea Land Develope) Rottordam, 6/26.
SCAC Transport 191 dnis (45,476 lbs) (Flokio) Harnburg, 6/24.
ALUMNUM PASTE U S Bronze Powders 70 dris (45,148 lbs) (Startburg 10,148 lbs) (Startburg 11,148 lbs) (Westport Clipper) L Avera, 7/13.
CEDARWOOD OIL CRUDE Exim Line 112 dms (41,579 DB) (Hanjin Yokohama) Hong Kong, 6/25.
CHEMIGUM P8B A Goodyeer Intl 1,080 bxs (77,514 lbs)
(Starfield) Le Havre, 8/26.
CHILLI POWDER Deep Foods 120 bgs (13,492 lbs)
(Hosen Mary) Bombay, 6/26.
CHINESE CUMIN SEED A A Sayla 500 bgs (56,217 bbs)
(American Kenbucky) Kohe (8/24

ibs) (Startleid) Antwerp, 6/26.

UMINUM POTASSIUM SULPHATE American Shpg
726 bgs (40,834 lbs) (Heide) Rotterdam, 8/24.

2,400 ctn (134,392 lbs) (American Kentucky) Hong Kong, 8/24.
ANTIMONY OXIDE Samincorp 800 bgs (Ever Laurel) Lr Havre, 6/22.
ANTIMONY TRIOXIDE ACI Chemicale 34 pkg (78,254

(American Kentucky) Kobe, 8/24.

MONOSODIUM GLUTAMATE Surrmit Imports 386 pkg
(36,014 lbs) (Ming Glory) Kesking, 8/23.

CHLORONITROBENZENES ORTHO lot Consultants 1
tnk (40,565 lbs) (Stelan Starzynski) Rotterdam, 6/
23. he) (American Kentucky) Hong Kong, 6/24. Plaxchem Intl 1,599 bgs (90,854 lbs) (Ming Glory) Kaot ASAH AJI MONOSODIUM GLUTAMATE Fatiek Chemica 23.
CHOLINE BITARTRATE Layden Customs Expeditors 200 dms (23,589 lbs) (Almudena) Bilbao, 5/25:
Samrak Chemical 120 dms (14,339 lbs) (Atlantic Service) Rotterdam, 6/24.
CHROME OXIDE Charles Kurz 164 dms (38,688 lbs) (American Kentucky) Hong Kong, 6/24.
Chi Mei Metels 340 bgs (38,228 lbs) (American Kentucky) Hong Kong, 6/24.
CITRIC ACID ANHYDROUS GRANULAR 5 Order 3 Con 1122 223 lbs) (Francis Research Con 122 223 lbs) (Francis Research Charles Res

750 bgs (38.360 bs) (Ever Gather) Oseke, 6/25.
ATACTIC POLYPROPYLENE Order of Shipper 1,440 bgs (79,630 lbs) (Hanjin Yokohama) Keelung, 6/25. ALSAM John D Walsh 10 dms (5,600 lbs) (Baint Louis) Haina, 6/27. Waan 10 dma (5,600 lbs) (Saint Louis)
Okars 5 dma (2,698 lbs) (Saint Louis) Haina, 6/27.
(RIUM CARBONATE Cometals 2,720 bgs (151,712 lbs)

Morimura Brothers 208 dms (24,978 lbs) (Ming Glory)
Morimura Brothers 208 dms (24,978 lbs) (Ming Glory)
MARKUM FERRITE Megno Ceram 20 cs (80,468 lbs)
MARKUM FERRITE Megno Ceram 20 cs (80,468 lbs)
BARIUM NITRATE IMCO 6 UN 1 lcc ind 700 bgs (78,043 lbs) (Ever Laureli Hamburg, 8/22) GLOVES Mincing Trdg 20 cs (2,434 lbs) (Hoegh Mary) Colombo, 6/26. Philadelphia Inti Bank 240 (4,408 lbs) (American Ken-

los) (Ever Laurei) Hamburg, 6/22. NZALDEHYDE O SODIUM BULPHONATE Leschaco 72 csk (25,528 lbs) (Stuttgart Express) Rotterdam, 6/24. NZYL ALCOHOL Metacomet 76 dms (36,526 lbs) (Sutigat Express) Antwerp, 6/24.
(Sutigat Express) Antwerp, 6/24.
(A2.549 be) (Siefan Starzynski) Le Havre, 6/23.

NZYL ALCOHOL ABPARTAME Cdf Chimie 1 Ink
(A2.549 be) (Siefan Starzynski) Le Havre, 6/23.

NZYL ALCOHOL PERFUME GRADE Chemical Dylardam, 6/23.

NZYL ALCOHOL PHOTO GRADE Chemical Dynamica 6/23.

NZYL ALCOHOL PHOTO GRADE Chemical Dynamica 6/23.

NZYL ALCOHOL PHOTO GRADE Chemical Dynamica 6/23.

NZYL ALCOHOL PHOTO GRADE Chemical Dynamica 6/23.

CUMENE General Electric 1 bits (61/282,3999 (1991) (STRUM)
Bontrader) PTO Torres, 7/8.
CYANINE BLUE PIGMENT Layder Customs Expeditors
60 dms (3,704 lbe) (Ming Glory) Kobs. 6,23.
CYCLOHEXY) METHYL CARBINYL BUTYR Bubel 17
dms (7,498 bs) (Dart Challnent) Feltxslowe, 6,/24.
CYNAMINE BLUE PIGMENTS Leyden Customs Expeditors 25 dms (1,543 lbs) (Ming Glory) Kobe. 6/23.
DEXTRINE Order 4,200 bgs (233,800 bis) (Bea Land De-71. ALCOHOL TECHNICAL GRADE Chemical Dy-namics 28 dms (12,346 lbs) (Stefan Starzynski) Rot-lardam, 6/23

DIOCITYL PHI HALATE 31883 I DKS (017,200 (LS) (CHOUL)
Vanquard) Genoa, 7/2.
DIOXYDE DE TITANC TITAFRANCE ANA Fulliex 850 bgs
(44,299 lbs) (Ever Leurel) Antwerp, 6/22.
DIPHENYL METHANE 4 4 DISOCYANAT Swift Adhe-BENZYL CYANIDE IMCO 6 UNNO 6034 Inter Meritime Fwdg 1 Con (43.761 ibs) (Ever Leurei) Antwerp, 6/22. DIPHENYL METHANE 4 4 DISOCYANAT Swift Adhesives 80 dms (38,801 lbs) (Starfleld) Le Havre, 6/26.

DODECYL BROMIDE Ameribrom 180 dms (74,075 lbs) (Slefan Starzynski) Rotterdam. 6/23.

DRIED RED CHILLI POWDER Koryeo Intl 550 ctn (19,251 lbs) (Oriental Patriot) Hong Kong, 6/23.

DRIED CHILLAN SEAWEED IRIDAEA Marine Colloids 1,375 bis (234,270 lbs) (Southern Diamond) Valorariso 6/26.

6/22.
BENZYL PARABEN Kanematsu Gosho 195 dms (23,214 ibs) (Hanjin Yokohama) Kobe, 6/25.
BETA HYROXYNAPHTHOIC ACID Ueno Fine Chemical ind 1,280 bgs (71,958 lbs) (Hanjin Yokohama) Kobe

BLACK PEPPER A A Saylo 216 bgs (34,048 lbs) (Hoegh Mary) Cochin, 6/26 A Kazemi 210 bgs (34,118 ibs) (Ever Gather) Singapore,

0/25. 210 bgs (34,118 lbs) (Ever Gather) Singapore, 6/25. Balfour Guthrie 430 bgs (67,829 lbs) (Hoegh Mary) Co chin, 6/26 Dmt 1,288 bgs (203,216 ibs) (Hoegh Mary) Cochin.

Gel Spice 210 bgs (34,118 bs) (Ever Gather) Singapore o/25. 430 bgs (67.829 lbs) (Hoegh Mary) Cognin, 6/26 BLACK PEPPER Griffith Laboratories 215 bgs (33.938 lbs) (Hongh Mary) Cochin, 6/26

Janizon & Deake 2, 147 bgs (338, 714 lbs) (Hoogh Mary) Cochin, 6/26 Lonis Furth 428 bas (67 560 flead Hoogh Mary) Cochin

Man Producten 429 bgs (67,716 lbs) (Hoegli Mary) Cochin, 6/26 Reliable Morcanile 429 ugs (67.624 lbs) (Hoegh Mary)
Cochin, 6/26.

Fata 17.584 bgs (2,771.982 lbs) (Hoegh Mary) Cochin.

6/26 BUTVAR AF Order 21 bxs (25,558 lbs) (Sea Land Dovelope) Rollordam, 6/2θ. 2 μcs (25.695 lbs) (Sea Land Devolopa) Rollerdam,

BUTYL LACTATE Fran Oran Shpg 80 dms (39,154 lbs) (Zim Iboria) Yokohama, 6/24.

CADMIUM PIGMENT Whitlaker Clark & Daniels 2 drag CADMIUM PIGMENT Whitlaker Clerk & Daniels 2 dms (123 lbs) (Atlantic Concert) Liverpool, 6/24.

CAFFEINE ANHYDROUS Amalgamated Metal 200 dms (12,125 lbs) (American Kentucky) Kobe, 6/24.

CALCIUM CARBONATE HAKUENKA CC & B H M Royal 4.796 pkg (246.335 lbs) (American Kentucky) Kobe, 6/24.

CARBON CARBONATE Morimura Brothers 60 ctn (2,798 lbs) (Ming Glory) Yokohonna, 8/23.

CARBONATE Morimura Brothers 80 ctn (2,798 lbs) (Ming Glory) Yokohorna, 6/23.

CASEIN Norseland Foods 2,340 bgs (128,970 lbs) (Sea Land Devolope) Rotterdam, 6/26.

CASSIA CHIPS Parker Trdg 750 bgs (34,480 lbs) (Ever Gather) Kingston, 6/25.

CASSIA OIL Order 73 dms (17,703 lbs) (Ever Gather) Hong Kong 8/25.

ibs) (Tonhiro) Antworp, 6/22. DIAPHRAGM GRADE CIL 1 bks (4,930,748 lbs) (Shoun

Fujiyama) Tasaport. 7/18.

Fujiyama) Tasaport. 7/18.

Norak Hydro Production 1 bks (3,747,868 lbs) (Westport Clipper) L. Avera, 7/13.

FLAKES icc Grup 360 bgs (39,890 lbs) (Ever Laural)

Antwerp, 8/22. LIQUID MERCURY GRAD ORDER 1 bks (5.485,849 bs)

tucky) Singapore, 6/24.
COBALT Mensoo Service 218 dms (126,939 lbe) (Dart Congheat) Antwerp, 8/24.
COPPER SULPHATE Don J Pestell 800 bg8 (44,445 lbe)

(Southern Dismond) Valparaiso, 8/28. CORIANDER CGM Grench Line 720 bgs (79,366 bs) (Al-lantid Saga) Le Havrs, 8/10. COUMARIN Order 270 dms (32,024 bs) (American Ken-

(ucky) Kobe, 8/24. CUMENE General Electric 1 bks (8:782,399 lbs) (Shoun

Cochin, 8/26.
GLYCEROL Ribone Poulenc 186 pkg (22,101 lbe) (Atlantic Service) Le Havre, 6/24.
GRAPEFRUIT Oil. Herbert Marmorek & Sons 8 dms (3,386 lbs) (Zim New York) Haila, 6/28.
S Ash 17 dms (7,196 lbs) (Zim New York) Haila, 6/26.
Ungerer 6 pkg (2,619 lbs) (Zim New York) Haila, 6/28.
GUM ARABIC Richard Boas 50 bgs (5,595 lbs) (Stuttgart Express) Hamburg, 6/24.
HYDROFLUORIC ACID ACI Chemicals 144 dms (77,778 lbs) (Hanin Yokohama) Kobs, 6/25 Hong Kong, 6/25. CASSIA OIL NATURAL Citrus & Allled Essences 12 dms

CASSIA OIL NATURAL Citrus & Allied Essences 12 gms (5,900 lbs) (American Kentucky) Hong Kong, 6/24.

CAUSTIC POTASH Holtrachem 1 bks (1,739,103 lbs) (Tonhiro) Antwerp, 6/22.

CAUSTIC POTASH SOLUTION Marathon 76 pkg (28,190 lbs) (Dart Continent) Felixstowe, 6/24.

CAUSTIC SODA Chomserve Terminal 1 bks (12,138,384 lbs) (Tanhiro) Antwerp, 6/22. lba) (Hanjin Yokohama) Kobe, 6/25
Amspec Chemical 136 dms (73,308 lba) (Zim Iberia)
Osaka, 6/24
USaka, 6/24
Shpg 216 dms (116,667 lba) (Ming Glory) Kobe, 6/23.

Cochin, 6/26.

ibs) (Hanjin Yokohama) Yokohama, 6/25.
DIETHYL 4 OXOPIMELATE 2 5 XYLENO Alba Fwdg 205

(994 lbs) (Allantic Sage) Rotterdam, 8/10.
DIMETHYLAMINOPROPYLAMINE Order 2 Ink (78,484

lbs) (Helde) Bramerhaven, 6/24.
DiOCTYL PHTHALATE Sisas 1 bks (617,288 lbs) (Shoun

ETHANOL & ITS SOLUTIONS Star Liquor Imports 2 tol-

dms (44,619 lbs) (Nedlloyd Rouen) Marseille, 6/24, ETHYLBUTANOL Order 1 con (35 362 lbs) (Ever Laurel)

Hamburg, 6/22
ETH/LOMOLOGUE A INTERMEDIATES Cosinos Shpg

400 hgs (21,601 lbs) (Ming Glory) Koba, 6/23 EUCALTPTUS OIL E L Scott 10 dnis (4,707 lbs) (Amu

dris (9 848 lbs) (American Kentucky) Hong Kong,

o/2.3.

IYDROLYZED PLANT PROTEIN PWD Natural Nydegger
Tranports 125 dms (7,855 lbs) (Allantic Service) Rotterdam, 6/24.

IYDROQUINONE DYE PRODUCT DANGERO Rhone
Poulenc 720 bgs (41,072 lbs) (Nedlloyd Rouen) Marselle, 6/24.

BANG, 5/24. DROQUINONE PHOTO GRADE Mileui 720 bgs (41,023 bs) (Mingo Glory) Kabe, 6/23.

INDIAN DRIED OSSEIN Order 778 bgs (69,006 lbs) (Amer-ican Kenlucky) Khor Fakkan, 6/24. INDIAN ORIED OSSEIN SIZE Order 385 bgs (34,502 lbs) (American Kentucky) Khor Fakkan, 6/24. INOSITOL NF GRANULAR Cargo Transfer 100 dms INOSITOL NF GHANULARI Cargo (ranser 100 drie (11,949 lbe) (Zim Ibena) Yokohama, 6/24, IRON OXIDE Trans World Shog 1,440 bgs (80,910 lbs (Sea Land Develope) Rollterdam, 8/26, ISOBORNYL ACETATE SOAC Transport 78 dms (37,487

ISODANTA ACETATE SUARC Transport 7 duris (37,467)
Ibs) (Heids) Rotterdam, 5/24.
ISODECYL ALGOHOL Order of Shipper 1 bks (2,205,158)
Ibs) (Stephania) Rotterdam, 7/6.
ISOPHYTOL Order 1 Lot (35,715 ibs) (Attantic Service)

Rotterdem, 6/24.

JELUTONG GUMS L'A Draylus 576 ctn (80,484 lbs) (Ever JELUTONG GUMS L. A Dreyrus bro duteu. 454 ps; (Ever Gether) Singapore; 6/28.
KARAYA GUM Ampak 350 bgs (38,966 bs) (Hoegh Mary)
Bombay, 6/26.
L CYSTEINE HGL ANHYDROUS Andel Products 20 time (2,381 lbs) (Ming Glory) Kobe, 8/23,

(Zim New York, Helfa, 8/28). L LEUCINE & L ISOLEUCINE Inter Maritime Fwdg 52 dims (3,234 lba) (Stuttgart Express) Bremerhayen, 6,24 PHENYLALANINE Francesco Parist 25 dms (1,147 lbe) (Starfield) Rotterdam, 6/26. L TRYPTOPHAN Shows Denko America 20 dms (2,557

L TRYPTOPHAN Shows Deriko America 20 dms (2.557 be) (Oriental Patriot) Kobe, 8/23, LACTIC AGID Trans Chemic Id 70 dms (38,581 lbs) (Aling Glory) Yokohama, 8/23, LACTIC OASEIN American Carein 400 bgs (44,092 lbs) (Heide) Hamburg, 8/24, LAMPONG BLACK PEPPER Omt. New York 420 bgs (68,236 lbs) (Ever Gather) Singapores 6/28, LANOLIN Oil, Order 180 dms (781,192 lbs) (Zim Iberia) Osaka, 6/24, LANOLIN Oil, Order 180 dms (781,192 lbs) (Zim Iberia) (40,792 lbs) (Ever Laurel) Robero Chemicale 1 och (40,792 lbs) (Ever Laurel) Robero Chemicale 1

(40,792 lbs) (Ever Laure) Rotterdem, 6/22.
LEAD FLUORIDE Oriek Chemicals 30 cs (3,307 fbs) (Ming Glbry) Koba, 6/23,
LIME Off. Order 10 drns (4,628 fbs) (Southern Diamond) Calleo, 6/28,
LINAL OL, Order 158 pkg (67,227 fbs) (Allentic Service) Le

Have, 6/24.

Have, 6/24.

Continued on Page

August 11, 1986.

CHENTCAL MARKETING B. POSTER

DIALLYL PHTHALATE MONOMER Alba Fwdg 80 dms
(39.330 lbs) (Ever Gather) Osaka, 6/25.

DIANISIONE DIHYDROCHOLORIDE Nagase America
190 dms (31,559 lbs) (Ming Glory) Kobe, 6/23.

DIAZINON ORGANOPHOSPHORUS PESTIC Makhteshim Agan 75 dms (40,013 lbs) (779 New York)

Start Advances in the control of

DIAZINON ORGANOPHOSPHORUS PESTIC MAKRI-eshim Agan 75 dms (40,013 lbs) (Zim New York) Halfa, 6/28.

DIBUTYL PHTHALATE Sisas 1 bks (374,694 lbs) (Shoun Vanguard) Genoa, 7/2.

DIBUTYLTINOXIDE 818 08 8 Acima A G 120 dms (28,043 (78.810 bs) (Oroental Patriot) Koho, 6/23
AGNESIUM SULPHATE ANHYOROUS Poliish faipant &

AAGNESIUM SULPHATE ANNY (ASCREPOINSI IMPRES)
chemical 800 bgs (80.608 ibs) (Stuttgar) Express)
Bromorisven, 6/24.
VALABAR BLACK PEPPER Man Production 430 bgs. (87,876 lbs) (American Kontricky) Singapaoro, 8/24. MALABAR GARBLED BLACK PEPPER A A Sayin 571 DIETHYL 4 UXOPIMELA IE 2 5 AYLENU AIDS FWG 205 dm (14,030 lbs) (Ever Gather) Osaks, 6/25. DIETHYL MALONATE Kay Fries 76 bri (36,526 lbs) (Ever Laura) Antwerp, 6/22. DIMETHYL PHENYLSOCYANATE Max Gruenhut 7 pkg bgs (90,129 lbs) (American Kentucky) Singaporo, 6/24,

6/24.

A Kzemi 215 bgs (33.938 lbs) (American Kentucky) Singepore, 6/24.

Dmt 1,284 bgs (202,674 lbs) (American Kentucky) Singepore, 6/24.

Durkee Famous Food 429 bgs (67.716 lbs) (American Kentucky) Singapore, 6/24.

Durkee Foods 430 bgs (67.875 lbs) (American Kentucky) Singapore, 6/24.

Gel Spice 931 bgs (146.817 lbs) (American Kentucky) Singapore, 6/24.

Griffith Laboratories 215 bgs (33.938 lbs) (American Kentucky) Singapore, 6/24.

Intl Brokers 214 bgs (33.779 lbs) (American Kentucky) Singapore, 6/24.

Singapore, 6/24. Jantzen & Deeke 2.342 bgs (369, 167 lbs) (American Ken-

Jantzen & Deake 2,342 bgs (369,167 lbs) (American Kentucky) Singapore, 6/24
Ludwig Mueller 215 bgs (33,938 lbs) (American Kentucky) Singapore, 6/24
Man Producten 1,071 bgs (169,008 lbs) (American Kentucky) Singapore, 6/24
Order 428 bgs (67,558 lbs) (American Kentucky) Singapore, 6/24
Reliable Mercantile 215 bgs (33,938 lbs) (American Kentucky) Singapore, 6/24
V Berg & Sons 200 bgs (31,526 lbs) (American Kentucky) Singapore, 6/24
MELAMINE & UREA FORMALDEHYDE MOU Order 929 dms (56261 lbs) (Zim New York) Haifa, 6/28.

1.375 Dis (234,270 lbs) (Southern Diamond) Val-paralso, 6/26.

DUNDICUT CHILLIES Morris J Golombeck 1,150 bgs (83,636 lbs) (Nedlioyd Rouen) Karachi, 6/24 Quality Spice 560 bgs (30,988 lbs) (Nedlioyd Rouen) karachi, 6/24.

(78,325 lbs) (Sluttgert Express) Greenock, 6/24 ETHYL MONOCHLOROACETATE Rhone Poulenc 80

MELAMINE & UREA FORMALDEHYDE MOU Order 929
dms (5826) bs) (2im New York) Haifn, 6/28.
MELAMINE MOULDING COMPOUND GRANU Order 820
bgs (46194 lbs) (2im New York) Haifn, 6/28.
MERCURIC CHLORIDE ACS Troy Chemical 183 dms.
(14354 lbs) (Hoegh Mary) Bombay, 6/26.
METACHLOROANILINE HAZARDOUS Order 20 dms.
(11993 lbs) (Allantic Concort) Liverpool, 6/24.
METANILIC ACID POWOER Orbs, Chemical 720 bgs.
(3983 lbs) (Hough Mary) Bombay, 6/26.
METHOCARBAMOL HARMLESS Accelerated Shpg 60.
dms (7143 lbs) (Stuttgart Express) Groenock, 6/23.

dena) Lishon, 6/25 EUCALYPTUS OIL EIGHTY PERCENT Bartel Shipq 22

0/24
Order 88 dms (39,394 lbs) (American kentucky) Hong kong, 8/24
FASTOGEN GREEN & BLUE Alba Fwdg 1,825 bgs (87,247 lbs) (Ming Glory) Yokohania, 6/23.
FATTY ACID Brooks Ind 80 dms (38,272 lbs) (Ming Glory) keelung, 6/23. METHOCARBAMOL HARMLESS Accelerated Shpg 60 dms (7143 ibs) (Stuttgart Express) Groenock, 6/24. METHYL CELLUL OSE Henkel 880 bgs (14815 ibs) (Stellar Starzynsk) Rotterdam, 6/23. METHYL ETHYL KETOXIME John Weidner 78 dms (35853 ibs) (Stefan Starzynski) Rotterdam, 6/23 Millsul 80 dms (37390 ibs) (Ming Glory) Kobe, 6/23. METHYL ISOBUTYL KETONE Sises I bks (1102267 ibs) (Shoun Vanguerd Genoc, 7/2 METHYL METHACRYLATE MONOMER IMCO Order (con (40785 ibs) (Ever Laurel) Felivstown, 6/22

METHYL METHACRYLATE MONOMER IMCO Order I con (40785 lbs) (Ever Laure) Felivstowe, 8/22 METHYL SALICYLATE Felion Intl 152 dms (87796 lbs) (Bazias 2) Constanza, 6/24.

METHYLCELLULOSE Mitrans 305 dms (37544 lbs) (Ming Glory) Yokohama, 6/23.

METOL PHOTOGRADE Howard Hell Intl 10 dms (1190 lbs) (Barber Texas) Yokohama, 6/26.

MONO PENTAERYTHRITOL Recochem 18 bbg (35935 lbs) (Southern Diamond) Valparaiso, 6/26.

1400 bgs (79862 lbs) (Southern Diamond) Valparaiso, 6/26.

heelung, 6/23.
Leyden Custonis Expeditors 900 bgs (45.498 lbs) (Ever Laurel) Antworp, 6/22.
FATTY ACID ESTER Gattelosso 250 bas (12.765 lbs) (Nodiloyd Rouen) Marseillo, 6/24.
GAMMA ACID DRY Ciba Geigy 150 drs (35.715 lbs) (Stultgart Express) Hamburg, 8/24.
GELATIN O C Lugo 400 bgs (22.928 lbs) (Atlantic Concert) Liverpool, 6/24.
GINGER A Kazemi 160 bgs (22.398 lbs) (Hoegh Mary) Cochin, 6/26.
Attarl Brothers 320 bgs (44,656 lbs) (Hoegh Mary' Cochin, 8/26.
Schill Flood Products 160 bgs (22.328 lbs) (Hoegh Mary Cochin, 6/26.

6/26.

MUNTOK WHITE PEPPER Buchanan Trdg 180 bgs (33863 bs) (Ever Gather) Singapore, 6/25.

Central Indonesian Trdg 180 bgs (33863 bs) (Ever Gather) Singapore, 6/25.

Gel Spice 120 bgs (22575 bs) (Ever Gather) Singapore, 8/25.

Ludwig Mueller B10 bgs (33863 lbs) (Ever Gather) Singapore, 8/25. MUSTARD Richter Brothers 110 ctn (3042 lbs) (Stefan Starzynski) Bremerhavn, 8/23.

N BUTYL METHACRYLATE FLAMMABLE Degussa 1 tok (36073 lbs) (Stuttgert Express) Bremerhaven, 6/24, N BUTYL METHACRYLATE IMCO 3 UN 2 Surface Air Intil 1 con (39374 lbs) (Ever Laurel) Feitxstowe, 8/22.

N BUTYL METHACRYLATE MEHO 15 IMC Surface Air Intil 1 con (39110 lbs) (Ever Laurel) Feitxstowe, 6/22.

N BUTYL METHACRYLATE MONOMER MEH Order 1 N BUTYL METHACRYLATE MONOMER MEH Order 1 con (39883 its) (Ever Laure) Rotterdem, 8/22.

N METHYL PYRIDINIUM SULFATE Max Gruenhut 4 dma (1980 ibs) (Atlantic Service) Rotterdem, 8/24.

NICOTINAMIDE FEEDGRADE Relily Tar & Chemical 800 bgs (44821 ibs) (Stuttgart Express) Antwerp, 8/24.

Relily Tar & Chemical 20 pit (37457 ibs) (Stuttgart Express) Antwerp, 8/24.

press) Aniwerp, 6/24. NIGROSINE WATER SOLUBLE CRYSTAL Order 20 dms (2432 lbs) (Hoegh Mary) Calcutta, 8/28.
NITRITE DE SOUDE SODIUM NITRITE Rhona Poulanc 720 bgs (81570 bs) (Ever Laurel) Antwerp, 8/22.
O CHLOROPYRAZOLONE Order 16 csk (0 lbe) (Ever

CHLOROPTRAZOLONE Croer to car (v ma) (cver Leurel) Hamburg, 6/22. ORGANOPHOSPHORUS Rhone Poulenc 1 cs (2 lbs) (Al-ORGANOPHOSPHOHUS FINDE POURING I GE (# 105) (Atlantia Service) LeHevre, 8/24.

ORTHO DICHLOROBENZENE Rachem Trdg 4 dms
(1817 ibs) (Sterfield) Rotterdem, 6/26.

ORTHO PARA TOLUENE SUL FONAMIDE Taub Humme)

School 120 dms (35049 lbs) (Hanih Yokehama) Susan, 8/25. OXALIC ACID F W Myers 720 bgs (38028 lbs) (Hanih

Yokohama) Keetung, 6/25.

OXIDISING SUBSTANCE Autotype 10 cs (132 lbs) (Atlantic Concert) Liverpool, 6/24.

P ACETANISIDNE Person 400 dms (50265 lbs) (Amelican Kentucky) Kobe, 6/24. HYDROXYBENZALDEHYDE Chemical Dynamics 30 dms (3770 lbs) (Ming Glory) Yokohems, 8/23.
P TOLUENE SULFONIC ACID D J Ambrosio 60

(38283 lbs) (Ming Glory) Yokohama, 8/23.
PAPRIKA John H Elton 330 bgs (38405 lbs) (Nedfloyd PARA CHLORO CRITHON 130 bgs (38405 lbs) (Nedfloyd Rouen) Valencia, 6/24.

PARA CHLORO CRITHONITROANILINE Bemo Shpg 110 dms (14711 lbs) (Ming Glory) Köbe, 6/23.

PARA CRESIDINE FUSED INTERMEDIAT Order 72 dms (35236 lbs) (Ming Glory) Kobe, 6/23.

PARA MONOCHLORPHENOL Rhone Poulenc 67 dms (40029 lbs) (Nedfloyd Rouen) Marsella, 6/24.

PARA TERTIARY BUTYL BENZALDEHYDE American Conteins Lbs. 80 dms. (39802 bes) 215-250.

PARA TERTIARY BUTYL BENZALDEHYDE American
Container Lines 80 dms (39903 lbs) (Hanjin Yokohams) Keelung, 8/25.

PARA TOLUENE SULFONAMIDE Taub Hummer &
Schnell 1800 bgs (71958 lbs) (Hanjin Yokohams)
Busan, 6/25.

PARAFFIN WAX Dura Commodities 724 pkg (41098 lbs)
(Dart Continent) Pelketowe, 8/24.

PENICILLIN G PROCANE Herri New York Chemical 188
dms (12425 lbs) (Dart Continent) Felketowe, 8/24.

Continued on Page 49

2.07 7.50 5.88

6.12

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48"x 24" TOLHURST SS "BATCHAMATIC"CENTRIFUGI COMPLETE LATE MODEL STILL INSTALLED (6) 75 HP BIRD CS HORIZ. SOLID BOWL CENTRIFUGE (4) 33'x 20' WESTERN PREC. SS TYPE 16-3320-12 CONVEYER, DRYER/CRYSTALLIZER

(2) 1200 TONS CARRIER CHILLER SYSTEM 2 LATE MODEL 6'x 61' RENNENBERG 304 SS ROTARY DRYERS COMPLETE NASH VACUUM PUMP SYSTEM MDL, CL 3001 AND MDL

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4000, 5000, 6000 GAL, AGITATED REACTORS VERY ATTRACTIVE PRICES

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BASKET

48"x30" Sharples 316 mdi. T1600 (3) 48"x30" Tolhurat Hast. C Auto (3) 48"X24", 3168S, Automatic, W/plow **PUSHER TYPE** Bird-Escher Wyse, 3168S, Mdl. P500, 20", UNUSED DeLeval, 25", 2-Stages, 3168S DISC/BOWL Delavai, Mdi. BRPX-309, SS, vert., & Mdi. BAF 50,SS Weatphalia 304 SS Mdl. SAMN-5036 Delavel, 25", 2-Stages, 316 SS SOLID BOWLS Sharples, Mdl. P1000, P8000, P5000, P5400, (2), PY 414 SS Bird, 40"X80", 36"X72", 32"X50", 24"X38", 18"X42', 16'x28" SS Podbielniak Mdl. 6000 comp. w/controls

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325 cu .ft. Abbe, 304 SS dbl. cone 200 cu .ft. 31659, 6'6"x11'6", rotary 164 cu. ft. Devine 304 SS dbl. cone 164 cu .ft. Paterson "Conaform," 316SS Dbl. cone 150 cu. ft. SS Twin Shell 150 cu .ft. SS. & 150 cu.ft. Nickel clad 125 cu .ft. SS & CS, 4'x14', 105/90/150 psi 125 & 83 cu. ft. Buflovak SS Rotary 60 cu .ft. Paterson Kelly, SS, dbl. cone s, go fotaly (4)

30 cu .ft. Pfaudier G/L dbl. cone vacuum

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16" SPERRY,SS FILTER PRESS, 2 EYE15 CHAMBERS

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300 GAL. SS VERT. TANK, 40"X48" (2)

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88 & CS, PULSE JET AND SHAKER TYPE
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100's of Pumps and Compressors

100's of Tanks - both atmospheric and pressure

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CALL NOW ABOUT GIANT RHODE ISLAN & NEW JERSEY LIQUIDATION all equipment still installed

(89) Glass lined & SS Reactor system complete with condensers, receive! and control panels. from 50 gal. by 4000 gal.

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FERMENTATION SYSTEM

18" to 56" plate and frame recess

(25) Vacuum dryer systems com with condensers, vacuum pumps Rotary 316 SS vacuum dryers

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18) Centrifuges 316 35 au ket centrifuges complete with Scrubber systems/Vacuum tems/Glass lined and \$8 fm. MUCH MORE!

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Foundary (1) -48"dis.x 40 drum flaker, nickel plated drum, mfg. Blaw-Knox Fluid Bed (1) 80 Kg. Aeromatic, Batch, 8'x9', 56,000 (1) 100 Kg. Aeromatic Model ST 100, eanitary SS (1) Fizzpatrick Model FA 250, SS, 20 HP XP

(1) Western Precipitation Model P80SSO-A, twin scraw, 12" dis. x 20' long, SS constr., jokt. rated 15 pel, complete with 7.5 HP vari-speed drive.
(1) New/Neven-Used Joy Processor, CS, single screw, 16" x 16" long, rated 110 pel @ 340° F., sprocket & chain drive by 1.5 HP varispeed drive.

Rotary Vacuum

Rotary Vacuum

(1) 200 Cu. Ft. Stokes, SS constr., compit.
(2) 165 Cu. Ft. Pfaudier, Double Cone, G/L, 30 AFV/S0 psi jktd., 15 HP vari-drive
(1) 160 Cu. Ft. Slow Knox, Nickel
(2) 132 Cu. Ft. Stokes, Nickel
(1) 72 Cu. Ft. Slaw Knox, SS
(1) 60 Cu. Ft. Titanium Double Cone
(1) 50 Cu. Ft. Gemco, 31688 sanitary, double

cone (1) 37.8 Sq. Ft. Horiz. Thin Film, vac. int. & 150 paig, 304/31898 (1) 30 Cu. Ft. P-K Twin Shell, 30488 (1) 20 Cu. Ft. Abbe Twin Cone, 30488

Spray

(1) 30"x3" Bowen Laboratory w/3" cone bottom, 88 constr., w/centrifugal atomizer, 3. HP blower & motor.(1)
(1) Niro leb size 32"diax2"w/2"cone w/centrif. stomizer 88 contacts
(1) 7"(0" Dis. Anhydro Complete System, sanitary 88
(1) 18" dis. Bowen compit. system 88 contacts, new 1978

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BOG Cu. Fi. Ikid. Dbl.Rbm. CS

Approx. 480 Cu. Fi. CS. 75HP

UNUSED 480 Cu. Fi. Marion Paddle, CS. 75 HP

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178 Cu. Fi. Pk. Twin Shell, 316SS

59.3 Cu. Fi. Marion Raddle, CS

59.3 Cu. Fi. Marion Raddle, CS

50 Cu. Fi. Sol Sp. Cone, 304SS

50 Cu. Fi. Sol Sp. K. Twin Shell, w/inf. bar

50 Cu. Fi. Roolngon Dbl. Cone, 304SS

50 Cu. Fi. Roolngon Dbl. Rbn. CS

50 Cu. Fi. Roolngon Dbl. Rbn. CS

50 Cu. Fi. Roolngon Dbl. Rbn. CS

50 Cu. Fi. WG Marion SS

50 Cu. Fi. WG Marion SS

50 Cu. Fi. Gewca dbl. cone, CS, 1 14HP

Cu. Fi. Pk. San Trwin Shell 19HP

Cu. Fi. Howes, CS, Dbl. Rbn.

Cu. Fi. SS, Dbl. Cone W/flockd-colide bar

30, Pl. Pk. K 7win Shell, SS Conetr., w/pin int. bar

Pk. zig zag CENTRIFUGES (1) Delaval BRPX 309, SS, 20HP (1) Unused Model B-10 Podbisiniak, Alloy 20

(1) Unused Model B-10 Podbielniak, Alloy 20
(1) Sharples A8-26, 88
(2) Sharples A8-16P, 31688
(1) Alfa-Laval 58 Decenter, Horiz., Mdl. NX314
(2) Dorr Oliver Mdl. CH30 CBU "Merco," 31688
contacts, 180 HP
(1) Bisker Perkins 8-82 "Pusher Type," 85, 50 HP
(1) Bisk 18" x 28", 316 ELC, contour bowl.
(2) Bisk 24"x38", 31688, 40 HP
(3) Sharples P-3000, 31688, 30 HP
(1) Sharples P-1000, 85 20HP
(1) Unused Bird 36 x96, 317L 88
(1) Tolhurat 48" x 24" post backet 31688

1) Tolhurat 48" x 24" perf. basket, 31688

Toihurat 48" x 24" perf. basket, 31688 sanilary, auto. plow & discharge, rated 85 &/cu. ft. @ 900 RPM, 20 HP XP.
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 Toihurat 48" x 24" Batchmaster, Hercelte fined, perf. basket, w/hydr. plow & 20 HP hydr. drive
 Western states 48" x 24", 316 88.
 Fistcher 48" x 28" Suspended type, SS perf. basket, 20/10 HP
 Sharples Tornado 48" x 30", 31688, perf. basket, 40 HP XP
 Alfa Laval Model MAPX 210 T24, SS wetted perts
 Sharples O and APX 210 T24, SS wetted

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Dorr Oliver Mercone Screener Model C-400 X2, all 58, twin screw disch., 10 HP

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AMMONIA **SOY BEAN** 200 TPD 900TPD **300 TPD** 700 TPD UREA NITRIC ACID 220 TPD 120 TPD

250 TPD 760 TPD AMMONIUM NITRATE 450 TPY 550 TPD

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(1) 1.4 Sq. Ft. Luwe Wiped Film, 316SS, 1.6 HP (1) 1.4 Sq. Ft. Luwe thin Time St. (1) 2.5 Sq. Ft. Rodney Hunt Turbo Film 347 SS (1) 5.4 Sq. Ft. Unwe Mintruder, 316 LSS (1) 6.54 Sq. Ft. Votator Eveporator System, 316 SS contracts, 15 pat \$ FV & Int., 130 pbil jkt. (1) 8.7 Sq. Ft. Rodney Hunt Turbo-Film, 304 SS contact parts, 15 pst \$ FV/180 pal jckt. (1) 10.8 Sq. Ft. Luwa SS Wiped Film Evep. System, 15/550 pal (1) 10.5 Sq. Ft. Votator Turba-Film, 304 Sanit. SS FV/150 pal 10MP

(1) 20 Sq. Ft. Kontro Hortz. Adjust-O-Film, 316ELC, 50 psig. 16

HP
(1) Aspect 31 Sq. R. Vert., Turbo-Film Processor, 304 SS
Contacts
(1) Like New 37.8 Sq. FL Luws Hortz. Thin-Film Dryer, 304/316L

SS (1) 40 Sq. Ft. Kentro Adjust-O-Film, SS constr., 20 Hp (1) 47 Sq. Ft. Arthan rising Film, Hast. "C" (1) Approx 51 sq. ft. Přaudier Wipad Film, 316 SS, 100/65 & FV (1) 80 Sq. Ft. Kontro Wipad Film Syst., SS constr., FV/150 psi,

40 NP (1) UNUSED 86 sq. ft. Luwe thin film dryer hosts. 318 L wetled

parte, FV InL., 150 pel sal steam [kt. (1) 141 Sq. Ft. Rodney Hunt Turbo-Film, 316 SS 16 pel int., 35 pel &t 40 HP XP

●●●TANKS-ALL TYPES

& SIZES

BLENDERS

Propane Storage System

400 gal. G/L Plaudion (chi Rescheve); 8b al.

t Sq. Ft. Artisian "Kontro" Ajust-O-Film eys., 31658 1.4 Sq. Ft. Luwe Wiped Film, 31658, 1.5 HP

130 TPD

150 TPD

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1-200 Sq. Ft., SS, Hercules, Horiz. 1-191 Sq. Ft. Enzinger, SS, Vert., 75 psi 1-157.54 sq. Ft. Sperkler model 55-5-28, 31688

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Rotary Vacuum 1-58.5 Sq. Ft. K8, Inconel 600 2-58.5 Sq. Ft. K-8, 31688, flexibelt

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spring disch., 56" dia. x 6' face drum 1–132 Sq. Ft. Dorr Oliver, 3048S, maxi-

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x10', sanit
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316SS
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1-500 Sq. Ft. Elmco, 316SS, belt disch.
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Plaudier 15,000 gal. rescior T316L, 100 pai int., 200 pai jkt., TANKS-S/S

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17043-Jos Oat horz. tank, 304SS, 18,000 gal., 12'6" dia. x 22'91/2" long, 10 PSI.

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16398-Mikro dust collector, S/S, 63 sq. ft., mdi. 9-8-100, pulse jet. 21153-EVO, bin vent, 72 sq. ft., S/S, 5 HP 20253-Unused EVO pulse jet collector, mdl. 84BF009C, 98

21192-JH Day md. RJ-18RJ36, 125 eq. ft., CS, 3 HP. 21222-Febri-Jet, mdl. SO16-80, 151 eq. ft. 20398-Pulse jet collector, "FlexiGeen," mdl. 58CT24 AV II

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20255-Unused EVO Corp. duat collector, shaker type, mcl. MS049C10,575 sq. ft.

SCREENS

21203-Sprout Weldron silter, D10, 6decks, 21150-Sprout Weldron, D10, 1 HP, 10 decks, S/8 cont. 21167-Sprout Weldron, D10, 2HP, 10 decks, S/S cont.

NEW ITEMS:

22005-Latisfood mod FKM2000E, 43 cu it. 9/5. 21933 Nauta MBX 980 Mixer, ST, on weigh scales 21934 Nauta MBX 1410 Mixer, ST, on scales w/drives. 20831 Petranneir, 3 bou 12 mixer, 9/8, Mr. 2-apead. 21888-Joy mod. WN 112 air compressor. 21856-Perry DJR 1600 gal. reactor, 7316SS agrt. 21 667-Plaudier 300 gat, reactor G/L. 21 865-Patterson Paste mixer, 750 gat, C/S, 60 HP. (7) 21 850-Sharples P3000, D-Canter, T318. 21796-Sharples P5460, D-Canter, T316 w/ger

21799 Bars 1451 eq. it., rolery vac dryer. 21803 Henschel 3 5 to it. 3/9 mixer. 21788 Baker Perkins Lab Mixer, 5 gal. jul., 2 HP, disp. blade. 21786-Bard 24"×60" centriluge, SJS, atendard. (2) . 21804-JH Day ribbon blender, 6 cu. ht., 5/8, 80 pet kt. 21805-Strong Scott ribbon blender, 5/S, 21 cu. ht. 5HP. 21607-Cumberlant Grinder, mod. 30, w/hopper 21606-Henschel Mixet, mod. 250,198, 25 cu. (f. 5/8 bow). 21615-Pfaudler Tank, 3166S vert. 12000 gal.

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15828-FE,inc. 36" dia.x12", 8/S, string disc., 1/2 HP. 17477-FE, inc., 3' dia x 5', 7316SS, belt disc., vac pump. 11177-DOIT ONVET S/S, 5' dis. x 6'L. 11653-Oliver T-316SS, precoat 5'3"x8" 19226-Elmoo valveleas precoat, 6' dia. x 6' lacs, S/S drun 19431-K.S. řiexibelt, 6' dia. x 6' lacs, 316SS. 18392-Eiraco bait filter, 8'x10', steel drum, w/Nesi 15627-Ametek, 6' dia.x14'0" face, maxi-belt, S/S. 17936-Elmco, 316SS, 10' dia.x14', knife discharge, 17283-impco belt filter, 12' dia. x 12', 304SS, Nash vecua

pump. 20251-K.S. T304, vacuum filter, 12' dia x 14', 30488, flexi-20323-Dorr Oliver 11'6" x16" face, S/S cont. parts.

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19446-Sharples Studge-Pak, SP-5500, 40"x24" basket 19253-Western States, 48"x30", S/S perf. bsaket, 50HP

hydr. drive, reconditioned. PRESSES

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1392-Fitzpatrick Chilsonator, 50 HP, mdl. HA-50-30-210. 18802-Stokes single puorin press, 900-530-1 (T4), 12 ton. 17224-Dorat compac., series TPA15, 20 tons. 10880-Stokes, mdl. R-4 press, 20 ton.

MIXER/EXTRUDER

17654-AMK 25 gel. Mixthuder, Sigma, ST 7.5 HP. 18298-J.H. Day 25 gel. Dispersion, 25 HP vari main, 10 HP 20996-AMK 30 gal. 8/S, jkt. 8igma, 7.5 HP Main, 6 HF

21334-Ross 40 gal., S/8 hot oil jkt., Sigma 6" disch. scraw. 19826-AMK 50 gal. ST, jkt., Sigma. 19421-AMK 75 gal. ST, jkt., Sigma, 10" disch. screw. 17138-AMK 120 gal., ST Sigma, 11.5" screw.
17138-AMK 120 gal., SJS, Sigma 15HP main, 10HP screw.
18494-AMK 150 gal., SJS Sigma, 50 HP main, 10HP screw.
20116-AMK 150 gal., ST, Sigma, 50 HP noin, 10HP screw.
20116-AMK 150 gal., ST, Sigma, 15 HP/10 HP
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MIXER RIBBON

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21833-Blower, Roots Rotary Lobe, mod.FTB406RCBJ, 10 HP, unklaed. (8) HR, unkland. (8)
21639-Sowitzer Blower, C/8, 15 HR, 402 CFM.
21637-Schwitzer Blower, 40 HP, 815 CFM. (2)
21632-Blower, Roots Rotery Lobe, mod.FT8412RCSJ. 60
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21638-Schwitzer Blower, C8, 50 HP, 1126 CFM.
21739-New York Blower, series 30, C8, 60 HP. (2)
21630-Blower, Roots Rotery Lobe, mod.FT8 824RCSJ. 100
HR, unitized. (3)

HP, unitized. (2) 21631-Bjower, Roots Rojery Lobe, mod.FTB616RCSJV. 100

21831-Blower, Roots Rotsry Lobe, mod.FTB616RCSJV. 100
HR unlitzed. (3)
21828-Blower, Roots Rotsry Lobe, mod.FTB632RCS, 150
HR, unlitzed.
21629-Blower, Roots Rotsry Lobe, mod.FTB621RCSJ, 150
HR, unlitzed.
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484 CFM, (8)

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21233-Hopper, 6'x5'x2'H, 80 cu.ft.
21293-Bin, CS, 4'x4'x4'H, 80 cu.ft.
21294-Hopper, 83, 8'da,x 4', 100 cu.ft.
21234-Hopper, 88, 6'x6'x4', 107 cu.ft.
21233-Bin, CS, 7'x7'x30'', 200 cu.ft.
21233-Bin, SS, 8'W x 10'L x 4'H, 220 cu.ft., 1800 gal.
2144-Balley blower, 38''dia., 2 HR
21273-Biower, Celicote, FRP 4000-SA, mdl.CLMR18, 7 1/2 HR

21176-Unused blower, Sutorbulit, mdl.8HV-B, 9/N 67624. 21227-Buffalo Blower mdl. 6E, 25 HP. (2) 21301-Buforbult Blower, mdl.8HV-B, 25 HP TEPC. (2) 21301-Buffalo Blower, etc. 7, 8/S, 60 HP. (2) 21161-Cleaver rooks Bolles: 5 HB. goes, 150 mgl. 2111-Platform Sciesor lift, 4000 lb.cop., 48"x48", 1 1/2 HP. 21125-Dust Collector, Fabri-Jet mid.SQ0-4B bin vent,42 sq.ft., 1 HP(2)

sq.ft., 1 HP(2)
21110-Bin varia, 65 sq.ft., Premier Filtair, 30498, (2)
211310-Bin varia, 65 sq.ft., Premier Filtair, 30498, (2)
21145-Dust Collector, 90 sq.ft.,vert.,C8, 10 HP blow,
21192-JH Day dust collector mid.Ru-16RJ36,125 sq.ft.,C9,
1 12 HP blow, 3 HP
31222-Fabri-let dust collector mid.Ru-60,151 sq.ft.
21285-Mikro dust collector, 288 sq.ft., 8/8, type, 48-6, 885-478.

8169-476. 21163-Piterito filter, cart.mdl.910349, 1981, 200 pel 200 R. (2) 21168-Hot Alr Pumace, gas fired, Kozma, 41/2'x6'x56"H, 10 21191-Hot Air Pumace, gas, Kozma, 5'x10'x6', 10HP. 21228-Hot Air Pumace, gas, Kozma, 43038, 4'9'x8'x 8'8", 21262-Balanca, O-Haus Molatura determinat 21261-Stone sink, 11/4", 22"x22"x7"deep.

SEVERAL SCHEW CONVEYORS AND MANY OTHER ITEMS ALL AT BARGAIN PRICES

21206-Mikro Puliverizer, 190 HP, Waler 6008d. (9)
21213-Mikro Puliverizer, 48CB, 100 HP.
21146-Mikro Pulverizer, 126 HP. (4)
21160-Mikro Pulverizer, spere assembly.
21117-Delumper, CB, 24"dia. x 14"W, 2 KP drive (6)
21122-Entoleter, lype EID, series 14, 5 HP drive (7)
21130-Pulveron Birong Boott, mdi.38-5, 38"dia.

variapsed. (2) 21135-Plautier Reactor, 1000 gal., 31659, jkt.109 pil. 21285-Toledo Scale platform dial, 1000 jb. dial x L 21276-Russell Finex twin turbo sleve market. mdi.A159120,sanitary,twin 3 HP. 2118-Sprout Waldron either, DIO, gyro whip, Hill and all 5/8.

21150-Sprout Waldron sfler, DIO, 1 HP, 10 decks, all the contacts (2) 21203-Sprout Waldron aliter, D10, 3/4 HR 8 decks, ^{\$1}

21280 Rolep Sleve Shaker, 10 screens.

21134-Sprout pedestal sifters, portains, 2448, 465 21185-Sweco seperator, 30" mdl.1.390536, (2.96, 465 21223-Aerodyne Duet Cyclone, mdl.2008V, 6018, 308 211401-Aerodyne seperator, mdl.3V4506, vet. cylone 21141-Lyclone, 28, 8"cite.x 20", 4"st.side, 6" code 21154-Cyclone, 30488, 6"dia.x 25", 6"st.side, 5" code 21158-Wet Scrubber, F/K WH-300 vecturi, 30488, 31487, 21158-Wet Scrubber, F/K WH-300 vecturi, 30488, 31487, 21290-Tank, ver1, 70 gal., 3/8, 2"4lis.x3", spin tystin bol.apitator. bot aghator, 21291-Tenk, 8/6, 70 gal., 2'dia 30'44, lilige los, fil

bettom, not, 200 gal, 30" risk 30", 3/4 H) 58 cm., 21295-Tenk, 6/8, 100 gal, 30" risk 30", 3/4 H) 58 cm., 2128-Tenk, vert, 230 gal, 8/6, 30" day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6 day 50" risk up 1228-Tenk, vert, 250 gal, 8/6 day 50" risk up 1228-Tenk, 250 gal, 8/6 day 50" risk up 1 Bottom. 21131-Tank, 850 gal., 700498, 5 did xe dish bd

21898-Brighton Corp. 12,000 gal. vessel.

BUY FROM CALUMET CITY, ILLINOIS LOCATION

LARGE POLYSTYRENE PLANT

LIQUIDATION SALE

(2) 21871-Prodex extruder 6", 30:1 L/D ratio, 600 HP.

21871 - Prodex extruder 8", 30:1 L/D ratio, 600 HP. 21872-Welex extruder 8", 30:1 L/D ratio, 700 HP. 21873-Welex extruder 8", 30:1 L/D ratio, 700 HP. 21919-Welex extruder 8", 30:1 L/D ratio, 700 HP. 21992-Buffalo blower, size 30, C/S, 10 HP (3) 21908-Buffalo exhaust fan, size 36, type B, 15 HP. 21880-Sutor Bill Blower, C/S, 40 HP. (4) 21992-Buffalo blower, type 40-3CB, 40 HP. (4) 21894-Buffalo blower, mod. 45-3CB, 75 HP. (3) 21883-Buffalo Slower, mod. 45-3CB, 76 HP. (4) 21894-Buffalo Slower, mod. 45-3CB, 76 HP. (4)

21883-Bird, 32 x 50 centrifuge, 80:1 gearbox.

21875-Bins, 176 cu. ft., S/S, cone boltom flat top. (4) 21831-Bins, 450 cu. ft., C/S, spoxy lined. (6) 21904-Bins, 450 cu. ft., C/S, spoxy lined. (6) 21905-Bins, 500 cu. ft., C/S, spoxy lined, flat top, conical bottom. (4) 21918-Worthington cent. pump, C/S, 15 HP, 200 GPM at

44 psig (2) 21918–Union Pump-inline, C/S, mod. 4x8x8.5 VCK, 40



21917-ingersol Rand Pump, In-line pump, C/S, 30 HP.

(2) 21915-Goulds, C/S turbine pump, 200 HP. (2) 21913-Worthington cent. pump, S&S, 2 HP. (4) 21912-Union pump-inline, S/S, 7.5 HP (2) 21899-Plaudier Reactor, 1,500 gnl., 318L SS dimple [kt.

(2) 21896-Pfaudler Reactor, 10,000 gal. 316L SS clad, 60 21883-Bird Centrifuge, 32x50, 80:1 gearbox. 21893-Environeering scrubber, mod. A33-14000 21895-Tenk, 850 gal. vert. coal ter epoxy fined. 21911-Tenk, 5400 gal. vert. C/S epoxy coated flat top/ 1900-Plaudier Reactor, 15,000 gal. 316L SS dimple



21871-Prodex 8", 30:1 L/D Extruder. 11908-Edw Renneburg Rot. Dryer, S/S, steam heat, 10

HP. (4)
21881-Heaters, C/8 steam, type BNF 2420 (8)
21914-Flotronica bin vent, filters, 122 sq. ft., 12 bags,
21990-Katron feeder, twin sprew volumetric, 8/8, (4)
21890-Katron Feeder twin srew, 9/8 mod. 5400-150 (4)
21901-Sparkler filter, 352 sq. ft. C/8, mod. VR-32-32.

21862_Screw conveyor, 304 89, 7" die. x 11L, 1.5 HP. 21888-Strong Scott Rib Blender, 25 cu. ft., 5 HP. (3) 1920-Welex extruder 6", 30:1 L/D, 400 HP. 1970-Welex extruder 8", 30:1 L/D, 400 HP. 1970-Welex extruder 8", 30:1 L/D, 600 HP. 1974-Conair pelletizer, 8/S, mod. 1024, 40 HP. (2) 1974-Weter bath, S/S, portable. (4) 1907-McMilan hyd, pump, 2 HP (2) 1887-Ross Static Mixer, 30488, 3"x6 element. (4)

AARON BUYS COMPLETE PLANTS FOR LIQUIDATION CALL LES OR JERRY COHEN TODAY

EQUIPMENT COMPANY (312) 350-2200

21873-Welex 8" Extruder, 700 HP.

21597-Metal Arts Corp. vessel, 17,000 gal. vert. 317L 88. (2) 21910-Tank, 840 gal., list top å bottom. 21920-Modern Weiding Tank, 4800 gal. horiz. rubber

21903-Tank, 50,000 gal. vert. C/S epoxy, flat bot. coni-

cal top. 21898-Brighton Corp. Tank, 12,000 gai. vert., solid



BAKER PERKINS HS-10W S/S "Lab" peeler

DELAYAL ACVO Disc/Nozzle SS 20 HP KRAUSE-MAFFEI 18.5" Pusher S/S (Rebuilt SHARPLES P-3400 SS horiz, solid bow

MIXERS/BLENDERS

DRYERS

Patterson 49 cu. ft. rot. vac. cyl. S/S 3'x 7'

LOUISVILLE 8x45 SS Rot. Hot Air-Steam

PK 2 cu.ft. SS Twin Shell Readcu.ft. SS Twin Shell 160 cu.ft. Young dbi rib STL jkt. 30 H.P.

300 gal. J.H. Day Pony Mixer Steel w/can J.H. Day 300 Gal. S/S dbl. arm tilt

(2) Vrieco 100 cu.ft. S/S Nauta Mixers

Readco 300 gal. S/S dbl. arm 60 HP

P/K 5 cu.ft. SS lig-Sol. Processor

P/K 10, cu.ft. SS Tw/Sh. w/Llq-Sol bar

DELAVAL BRPX 213-358 SS 30 HP BIRD 24x60 ST/CCF design WESTFALIA SAMR 5036 SS 15 HP

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CENTRIFUGES
SHARPLES P-4000 9/3 Vert. (Rebuilt)
SHARPLES AS-16, 16V,26 8/3 ciar./sep. (Rebuilt) 4'x20' S/S STRAIGHT LINE 7.5 HP W/ACCESS SPARKLER 18-D-5 S/S Vert. Tank Press Leaf 60# EIMCO 6'x6' Rot Vac 113 sq.ft. Poly Knife 18",24",36",42"P/F Presses C.I. Poly or S/S SPARKLER HRC 150 S/S Horiz. Press. Leaf 35,50,150,300 sq.ft. Press Leaf S/S TANKS/REACTORS

29,000 GAL. HORIZ. 31655 Tanks 40# (2) 300 Gai. Groen S/S Kettle (jkt) 1,200 GAL T-316 SS REACTOR 30 75/# JKT. w/AGIT. ALFA-LAVAL NX-21489 DECANTER 20 HP SHARPLES 48"x30" T-1600 AUTO 316 \$8 SHARPLES Mark 3 14" SS perf. auto basket

12000 Gai. Horiz SS w/Top Agit, DH. Hds. 2900 Gal. 25#/FV-85#/[kt. 15HP 30,50,150 Gal. S/S Reactors 100#/75# 16,000 gal. 304 SS vert. w/coll & agit.

MISC. SPECIALS

PK 75 cu. ft. S/S TW/SH mixer w/bar 300 HP SUPERIOR PACKAGE BOILER 150 #2 Oil 15 HP, 30 HP, Agit Drives, variable 25-100 RPM SIMPSON 11/2F, 3F, S/S MIX MULLERS 8'6''x 78' Autoclave 150# w/track QOD -FITZ Milis S/S D, D12, FASO12 & Chilsonators 7'xlany length) AUTOCLAVES 100# Code W/Track -100-10,000 sq.ft. Ht./Exchr's S/S & C/S 150 cu. it. P/K Twin Shell stl. 10 HP -100-10,000 gal. G/L Tanks & Reactors DAY 52 cu. ft. S/S NAUTA MIXER MB-520 Bowen 4'6" No. 2 Tower Spray Dryer S/5 gas nozzle

Spray Dryer, Bowen 30" lab, Niro 48" utility S/S DAY 100 gal. S/S dbl. arm sigma jkt. vac.

VIDEX WAREHOUSE SPECIAL NASH CL-2001, 2002, 3001, 3002, & 4002, Solid Stainless Steel Vacuum Pumps with Molors, Separators, Sitencers, Etc.

SAVE PLANT SITE (CALL FOR DETAILS) SPECIALS

SPECIALS
38"x72" Bird hortz, solid bowl cent, sti.
Stansteel 8x50 Rot Hot Air Dryer w/Burner, C/S
200 gal. J.R. Day Pony Mixer Steel W/Can
2000 gal. Plauoler G/L reactor w/agit.
Bird 40x60 316 8/S Cent. 114:1 100 HP
Feine. 5'x7' S/S Rot Vac filter
150 cu. ft. Munson Mixer S/S jktd.
12,000 gal Frp Vert. Tanks (2)
1000 gal. Plaudler G/L reactor 75 # /75 # w/agit.
Bird 1 8x28 S/S Contour Bowl Centrifuge
P/S 6' x 45' SS CONEVER DRYER
22,500 Gal. Tank/Siło SS Vert 12 ft. x 24ft.

PURCHASED Niagare 24 sq. ft. Pross. leaf filter 9/8
200 gal. 9/S reactor 150#/150# w/agit.
200 gal 88 vacuum receiver
Foremost HD-8 Granulators 14x18 (3)
108", 60" 54", 41", 32", extrusion abset lines
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Patterson, Abbe 3,5 cu. ft. 9/8 dbl. cone vac. dryers
Stokes 73 sq. ft. 5/8 vac. shelf dryer
B/P 80 GAL. STL. D/ARM MIXER JKT. W/DRIVE
Gehnrich Oven SR 8 travs steam heated

WE HAVE MANY MORE ITEMS -- LET US KNOW WHAT YOU NEED

2-UNUSED HOCKMEYER 200/100 HP explosion proof disperser, tank mount, Stainless Steel shaft, manufactured 1982 **NEVER INSTALLED**

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MILLIONG TANKS-BS, Rd., 100, 300, 500, M. Board
MILLIONG TANKS-BS, Rd., 100, 300, 500, M. Board
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BLENDER-Double planetary, 50 pst., Porty 83 316, LH. Day
RHIBOR BLENDER-19 Ld., 56 cd., 100 od., 200 od., 350 od., 150 od.,
BLENDER DOUBLE SIGNA-Reacton 150 pst., att56, jecketed
COUBLE COME BLENDER-1, b. L., 58, Faithston Kalley
DISPERISER-25 hp, Hodiomyse'
CENTRIPHICE-A. TAN Desirch 50"7.25" att 58 (2)
KETTLES-O. B. Elsot, br. Authobitises Stokes (3)
KETTLES-O. B. Elsot, br. Authobitises Stokes (3)
KETTLES-O. B. Elsot, br. Authobitises Stokes (3)
KETTLES-O. B. Elsot, br. Authobitises (4)
KETTLES-10 pal. bit 160 pal. Autobinites-Biokas (8)

KETTLES-10 pal. bit 160 pal. Bit 88, Gross (18)

KETTLE-10 pal. St. victura. bit 160 pal. mixer, Gross victordenser

REACTOR-600 pal. Bit. Jackshined, Participer

REACTOR-600 pal. bit. Jackshined

REACTOR-600 pal. bit. Jackshined

REACTOR-600 pal. bit. Jackshined

RADI MILL-81 pa. Chicago Booler, Radi Head

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SWESCO MILL-81 165 Vibro Energy

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RADI PARTICIPATES ALAS HOMOGENIZER-Denvier v. speed

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AUTOCLAYER-87 1 57 7 6 720 9, abortiony abo. bit 85

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TANGS-10 pal. bit 8000 pal. bitshines, miy shape (200)

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CHEMICAL MARKETING REPORTER

August 11, 1986

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1

SHARPLES CENTRIFUGE 30" x 18" SOLID BASKET TOP LOAD , STAINLESS LENGER-330 Co. Ft. Areco Steel End BLENDER-10 Cu. Ft. Gemco-Matic Steinloss CENTRIFUGE-49" x 30" Western States Part., S.S. 316 CENTRIFUGE-#5500 Podblein, IX S.S. 316 PUP Series COLUMN 35" x 20" Pleuder Glass Packed

VACUUM PUMP 80 CFM (§ 1 MM Stokes 149-H-10, 3 HP VERSATOR-D-8 Cornell S.S. 316, 11-) HP Van XP

Gehnrich Oven SS 6 trays steam heated 250 gal. S/S Reactor 30#/125# jktd. w/agit

JUST PURCHASED

COLUMN-24" x 30" Plaudler Gfass Packed COMPRESSOR-800 CFM (§ 125 PSI Clark ICA-6,150 HP (PRESSOR-400 CFM (\$ 100 PS) Feller C-80-60H, 100HP CRYER-Soul It. P.K. Confee! Vacuum Stainless EVAPORATOR-6.54 sq. ft. Raddey Heet S.S. 316 System EVAPORATOR-1 Eq. II. Rodney Hint S.S.316 W/Condensa EXCHANGER-388 sq. II. 304 S.S. 150/150 PS/ UNUSED (4

PROCESSOR-10 cu. (1. P.K. V-Typo S.S. Jkt. Vec. 550 #(3) PROCESSOR 5 cu. (t. P.K. V-Typo S.S. Jkt. Vec. 550 # REACTOR-5 cgt. Plaudier FV & 60 PSI-90 PSI Jkt. 316 S.S. TANK-10 C00 gal. Herizonial, S.S. Clad FANK-4200 gel. Vertical 304 S.S. 25 PSTURUSED TANK-4000 gal. Vertical 304 S.S. 25 PSI UNUSED VACUUM PUMP-150 CFM (§ 26" Nash H-6, 25 HP

EXCHANGER-278 ag. 11. 304 S.S. 175/175 PSI UNUSED (2)

HOMOGENIZER-420 GPH (§ 8000 PS) Manton Gaulin Steinfest MILL-27H Mikro Pulvenzer Steel, 15 HP

EXCHANGER-175 sq. (t. 316 S.S. 150/150 PSI Codo)

EXTRUCTOR 5" Rietz S.S. 304, SHP Vari XP

EQUIPMENT CO. INC.

SAVE

JUST



KETTLES-REACTORS. SS

30.000 gal. 3048S fermentors, 14' x 24', 25 psi/vac colle, 200 HP agit. (4) 15,000 gel. 316LSS reactor, 12'6"x 15'100 pel int., 20

pei jkl., agit. (3) 10,000 gai. Pfeudier 316LSS reactor, 138"x 148", 100 pe int., 150 pei jkt., hyd. agit. (4) 5,000 gei. 304SS, atm. int., 75 pai jkl., agit. 0,000 get. 30485 kettle, 18 pel jkt., 5 HP agit. 4,100 get. 31485 kettle, 18 pel jkt., 5 HP agit. 3,500 get. 31485 reactor, 75 pel/FV int., 180 pel jkt. 1,500 gal. 30488 kettles, jktd., 5 HP agit. (3) 1,150 gal. 30488 reactor, 15 pel int., 25 pel jkt., 8 HP agi 900 gal. 30488 reactor, 75 psi/FV int., 150 psi jkt., egit: 600 gal. 30488 reactor, 300 psi int., 75 psi jkt., colis (3) 500 gal. 30488 reactor, 150 psi int., 150 psi jkt., 5 HP agit 300 gal. 31688 reactor, 75 per/FV int., 60 psi jkt. (50)... 31688 and 30488 reactors and kettles from gallon to 400 gallon... call for list.

REACTORS-GLASS

2 gal. Pfaudier, 750 pei/FV, 700 pei jkt., 20 gal. Pfaudier, 35 pel, 100 pei jkt., agit. (2) 30 gal. Pfaudier, 1ktd.
50 gal. Pfaudier, 25 pel, 100 pei jkt., agit., 1975
100 gal. Pfaudier, 25 pel, 90 pei jkt., agit., 1975
100 gal. Pfaudier, 25 pel, 90 pei jkt., agit.
180 gal. Pfaudier, 25 pel/vac., 90 pei jkt., agit.
200 pel, 100 pel, jkt., agit. 1978
300 gal. Glascote, 25 pel/vac., 90 pei jkt., vari-drive agit.
500 gal. Pfaudier, 100 pel/vac., 90 pei jkt., 5 HP agit.
750 gal. Pfaudier, 25 pel/vac., 105 pei jkt., 5 HP agit.
1,000 gal. Pfaudier, 100 pel/vac., 90 pei jkt., 10 HP agit.
1,500 gal. Pfaudier, 100 pel/vac., 90 pei jkt., 10 HP agit.
1,500 gal. Pfaudier, 100 pel/vac., 90 pei jkt., 15 HP agit.
2,000 gal. Pfaudier, 100 pel/vac., 90 pel jkt., 15 HP agit.
2,000 gal. Pfaudier, 150 pel jkt., 5 HP agit.
2,500 gal. Pfaudier, 150 pel jkt., polymerizer, agit.
4,000 gal. Pfaudier, 100 pel jkt., polymerizer, agit.
4,000 gal. Pfaudier, 100 pel jkt., polymerizer, agit.
4,000 gal. Pfaudier, 100 pel jkt., polymerizer, agit.
8,000 gal. Pfaudier, 90 pel jkt., agit.

AUTOCLAVES

Autoclave, Lirea, 46" x 45" high, 31688, 3200 psi, mul well. fkld. Autoclave, 7° x 7° Biggs, 100 psi
Autoclave, 72° x 38° high, 316L/8S, 2200 psi
Autoclave, 30° x 48° Schneider methanol conve
forged attest, 3195 psi, UNUSED terkizer. 2'2" x 3' American. 88

Sterilizer, 20" x 20" x 36", SS Amsco Sterilizer, 2" x 5" Amsco, SS BINS, HOPPERS

2,000 cu. ft. eteel, 27' x 40', butler boiled 5,800 cu. ft. steel, 12'd" x 48', bolted 1,050 cu. ft. 304SS, 8' x 18', plus cone (3) 450 cu. ft. 30488, 9', x 6', cone 375 cu. ft. 304SS, 8'6" x 5", 7' cone 270 cu. ft. 304SS, 6' x 14' 95 cu. ft. 304SS, 5' x 4', 4' cone

DUST COLLECTORS

100 sq. ft. Draco, aluminum 185 sq. ft. Draco, aluminum 200 eq. ft. Fisher, 2400 CFM 765 eq. ft. Mikro Pulseire # 64SA20, 5S 765 eq. ft. Mikro Pulseire, #1F1-48, 5S 1460 eq. ft. Carter-Day, 8S 12000 CFM 2668 eq. ft. Parsone, 7660 eq. ft. 8000 eq. ft. Standard, 75000 CFM, UNUSED (4) Phone (609) 267-1600

> for Process

Equipment

DRYERS BLAW Knox 6'4"x 40" 88 vac. dryer, 600 cu. ft.

Blaw Knox 66"'x 36' vac. dryer, nickel

Mathis 24"x46" flaker, chrome plated

Sandvik 48"x24" SS belt flaker, UNUSED

Blaw Knox 36"x 20" vac. dryer 316L 5S, 72 cu. ft.

Sargent 60" x 45' SS conveyor dryer Stokes 8" x 11" drum flaker Blaw Knox 32" x 90" dbl. drum Buffovak 42" x 120" dbi, drum, 160 pai Aeromatic #8T-5 fluid bed dryer, 5/10 KG Witte 36" x 10' fluid bed, SS, sanit.-cooler Stokes 35 sq. ft. Lyophilizer freeze-dryer Renneberg 36" x 20" rotary dryer, 316 88 Renneberg 5's 25' 30488 rot. hot air dryers, w/c 96" x 50" Louisville SS rotary dryer 10' x 100' GATX rot. steem tube dryers, 140 pel (4) Wysemont #VTL-24 Turbo-tray dryer, 30498 P-K 5 cu. ft. vac. dryer, 304\$\$ P-K 20 cu. ft. vac. dryer, 304L SS (2) Abbe 30 cu. ft. 304S8 vac. dryer Devine 110 cu. ft. 304 SS vac. dryer Pfaudler 165 cu. fl. glass-steel vec. dryers (2) Abbe 325 cu. ft. 31688 vec. dryer Devine 370 cu. ft. 3168\$ vac. dryer Devine 564 sq. ft. vac. shelf dryer Niro 30" 88 spray dryer Turbulaire 48" x 7' apray dryer Bowen 72" spray dryer, \$8 Bowen 96" spray dryer, S8

FILTERS-VACUUM

36" x 1' Ametak, 316SS, 9 aq. ft. 40" x 3' Bird-Young, SS, 48 aq. ft. 4' x 16' Elmoo, 316SS, 64 aq. ft., horiz. 6' x 3' Amelek, 88, 55 eq. ft. 6' x 4' Eimco, "Eimcomet" polypropylene, UNUSED 6'x6"x 14'-9" Passavant 200 belt press, 250 sq. fl., 1982 (4) 6'x6"x 14'-6" Passavant 200 belt press, 250 sq. ft., 1982 (4) 8' x 8' Etmoo, SS, 200 sq. ft., precost 8' x 10' Dorr-Oilver, 250 sq. ft., 3168S, precost 8' x 12' Etmoo, 3168S, precost, 300 sq. ft. (3) 8' x 14' Dorr-Oilver, 3168S, precost, 350 sq. ft. (2) 10' x 10' Elmoo, 316SS, precost, 314 sq. ft. 11'6"x 16' Elmoo, 36 contacts 12' x 12' impoo, 304 SS, 450 sq. ft. 12' x 14' Komline, 304SS, 526 sq. ft., fiexibelt disch. (2) 45' dis. Elmoo tillting pen. vac. filter, 316 SS

FILTERS-PRESSURE

12 sq. ft. Amatek/Niapara #12, SS 54 sq. ft. Funda, SS, |ktd. 65 sq. ft. Artlesn "Dynamic" filter/washer, SS (2) 320 sq. ft. Durco, 316L SS 800 sq. ft. U.S. Autojel, 3168S, sanit. 1000 sq. ft. U.S. Autojel #1000, 3048S 13" Horman filter press, 21 plates, 98, sanit. 30" Sperry filter press, 11 cu. ft. 36" Shriver filter press, 546 sq.-ft., hydraulic 42" Shriver filter press, 777 sq. ft., hydrautic 48" Shriver ALP recessed filter press, SS, 276 sq. ft. 48" Clow, polypropylene recessed, 1500 sq. ft.

PULVERIZERS

.Mikro #5MA alomizer, 5 HP Mikro #8MA atomizer, SS Mikro #2DH pulv., SS, 5 HP Paliman #REF8 pulv., 100 HP Paliman #PP6 pulv., 50/75 HP Abbe porcelain pebble mills... 36"x42", 36"x48", 42"x60", 48"x60", 60"x48" (7) Reymond 50" 5-roller hi-side mill, 1981, UNUSED Raymond #6058 Hi-side roller mills, dbl. whizzer (2 Raymond #73612 Hi-side roller mill, dbl. whizzer

NEW LIQUIDATION DETERGENT MFG. EQUIP. ...NORTH JERSEYI

5-Cleveland 120 cu. ft ribbon blenders, 60 HP drive, w/ surge hoppers 5-60° C/C steel bucket elevators 5-Klasel bag type dust collectors 1-J.H.Day 200 gel. sigma blade mixer, jktd., 40 HP, hyd.

1-Houchin 1,500 gal. SS scap crutchers, 15 HP 2-Moyno Pump # IL8SSQ, 5HP. 2-FMC-Stokes form, fill & seal units 2-Eriez #828 vibratory feeder, SS, 60"x 18"x 24",

UNUSED 2-Toledo digital electric scales: 600#, 2500# cap. 1-Fairbanks 200# electronic scale 1-Hesser volumetric powder carton filler. 2-Standard-Knapp case gluers 1-Hercules drum mixer 1-200 gal. SS tank, jkt. & agit.



Over (50) Bird & Sharples decanters CENTRI-UGES

Sharples P-5400 D-Canter, 316SS, Carbide tiles, late (2) Sharples P-3400 D-canter, 316SS, tiles (2) Sharples P-5000 D-canter, 316SS Sharples P-660 D-canter, 316SS, back drive Bird 12" x 30", 316SS, Decanter, 20 HP Bird 18" x 28", 316SS, Decanter (3) Bird 18" x 42" Decanter, steel, 10/30 Bird 24" x 38" Decanter, 3045S, contour-10 Bird 24" x 38" Decanter, 316SS, contour (3)

Bird 24" x 60" Decenter, steel Bird 24" x 86" Decanter, SS, 125 HP Bird 32" x 50" Decenter, Monet, contour (2) Bird 32" x 50" Decenter, 304SS, contour Bird 36" x 96" Decanter, 316SS, contou

Bird 36" x 96" Decanter, 316SS, contour
DeLaval NX214-318 Decanter, 304SS, 20 HP (2)
Sharples AS16V "Super," SS (5)
Sharples AS28V "Super," SS
DeLaval BRPX-213-30, 316SS separator/desludgers (3)
Weatfalla SAMN15037, Desludger/Separator, 316SS
Weatfalla SAMN15037, Desludger/Separator, 316SS
Weatfalla SAMN15036 clarifler, 316SS
Weatfalla SAMN5036 clarifler, 316SS
Weatfalla SA14-35-076 3-way separator, 316SS
Krupp 10" pusher, 316SS, 15 HP
Baker-Perkins 19" pusher, 304SS, 40 HP
Podbielniak extractor, #6500, 7000, 9500, SS contacts, (3)
Sharples 46" T-1600 auto-basket, 100 HP
Tolhurst 48" Batchmaster, rubbar lined, 30 HP Tolhuret 48" Batchmaster, rubber lined, 30 HP Sharples 48" Tornado-Matic, SS, 25 HP

854 sq. ft. Buflovak dbl. effect, 88

10,400 gal., 304SS, 10'6" x 16', agit. 8,000 gal., 304SS, 10'6" x 12'

5,000 gal., 30488, 9'x9', 25 HP agit.

3.5 cu, ft. Henschel #FM15D, 17/20 KW

3,500 gal., 30488, 8'x9' 3,000 gal., 30488, 7'x 10', agit.

1416 eq. ft. Vulcan, 31688 1688 eq. ft. Roger dbl. effect, 68 Swenson 31698 co ntinuous crystallizer, 9" x 14"

30,000 gal., 304SS, 14' x 24', colls, 200 HP agil. (4) 30,000 gal. ateel propane tenks, horiz. 250 pai (5) 20,000 gal., 304SS, 12' x 24' (2) 17,000 gal., 304SS, 11' x 24' (3) 10,500 gal., 316L SS, 8' x 25'

WIXERS, BLENDERS

3.5 cu. ft. Henschel #FM15D, 17/20 KW
11.5 cu. ft. Henschel #115JS8, 92/46 HP
13.7 cu. ft. Lodige #W600/K1200, mix/cool comb.
20 cu. ft. P-K twin shell SS
35 cu. ft. Day Nauta, #NBX350, SS
60 cu. ft. Gemco, TW SH, Sanit, SS
69 cu. ft. Patterson dbl. cone, SS
70 cu. ft. Day Nauta, #NB700, 10 HP
75 cu. ft. Day Nauta, SS, jktd.
75 cu. ft. Robinson SS ribbon blender, jktd. (2)
98 cu. ft. Day Nauta, SS, 1981
110 cu. ft. J.H. Day, dbl. ribbon, 316SS
120 cu. ft. Cleveland ribbon blenders (5)

120 cu. ft. Cleveland ribbon blenders (5) 189 cu. ft. Pfaudier, dbl. cone, glass steel jktd., vacuum

200 cu. ft. Young, ribbon, SS 316 cu. ft. Sprout-Waldron ribbon blender, SS, jktd.

(6) Nooter 4'x 14' 316 SS rot. vac. dryers, 1982, NEW

EQUIPMENT CO. INC.

WORLD HEADQUARTERS...

Box "O", Hainesport, New Jersey 08036 Phone: (609) 267-1600 ● Cable "PERI" ● Telex 84-5397

TANKS & VESSELS

Delaval 48" Mark 111, 3165S hyd. CENTRIFUGE PARTS... Sharples, Bird, DeLaval, etc. EVAPOREM CORSE 2.4 sq. ft. Rodney-Hunt SS, 3 HP 21 sq. ft. Rodney-Hunt Turbafilm #4, S8 87 sq. ft. Rodney-Hunt, 304 S8, Turbafilm 100 sq. ft. Pfaudier, 316L SS, wiped film 600 sq. ft. Goelin-Birmingham dbl. effect, f

12'6" L (4)

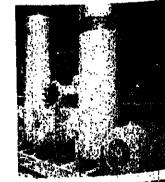
19'10" w/483 sq. ft. dust collector (2)

PULVERIZERS, Mikro #4TH pulverizers, 125 FF

drive (5) PULVERIZERS, Mikro #18CB, 7½ HP, with 些

lock & 30499 disc. chute

GPM @ 1500 psi, 50 HP PUMPS, Penbody #14DOH-2 cooling town pumps, 2000 GPM at 140' head, 100 HP SHRINK WRAPPERS, CTX Prod. #PSBY4X4 shrink wraps with oven



BLOWER PACKAGES

(30) Roots "Whispair" positive blowers, packaged by Flo-Tronics, for men transfer...150, 100, 50, 40, 25, 20, 10, 5 HP sizes...ALL NEW!



NEW & UNUSED PROCESS FOUR, 1982, IN OPIGINAL PACKING ... SOUTH CAROLINA, GALLE -Phone (609) 267-1600

BALERS, Dispozapak #D600 balers, (2) BAG PACKER, Howe-Richardson #G-8-17 semi-automatic bagging system 88 contacts. heat sealed closer, etc.

BINS, 304L SS contacts, 1300 cu. ft./9720 gal 11'6" x 11'6" x 18" high, steel reinforced (2) CENTRIFUGE, Bird 24" x 96", 30458, Model 18 solid bowl continuous, 10 deg. contour bowl Tungsten carbide tiles on conveyor, 150 HP 2900 RPM bowl speed (3)

CHLORINATION SYSTEM, Wallace & Tiemen #V800 floor mounted modular chlorinator COLUMN, 46" dia. x 15'9", 30488 wash columns, designed for agitation (2) CYCLONE, DuCon Model 700/175 30488 Nat efficiency cyclones, size 210, Type VM (8)

DRYERS, Nooter 4' x 14' rotary vac. dryw,344 SS shell and jacket, incoloy ribbon with ASME 100 psi/FV int. & jacket, 100 HP peckaged Reliance drive with freq. convents Mech. seals, (6)

FEEDERS, Acrison gravimetric weigh feeders, Model 403-15,000-3,000-BDF-4, 304 \$8 contacts, Model BDF-4 volumetric feeder, Size "R" metering, auger and disc. cylinder, etc., etc... all SS contacts

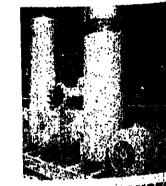
URNACE, C-E Air Co. "Cor-Pak" thermo oxydizers, direct gas fired 8'x2" W x 7'9" Hz

MIXER, Air mix blender system, Koppers-Sprou Waldron #36-50, 500 cu. ft., 30488, 8° z VIXERS, Webb, 59" W x 15'L twin shall padde mixers or pug mills, 30498 contacts, twin 15 drive, (2)
PACKAGING SYSTEM, design to fill bags, per
PACKAGING SYSTEM, design to fill bags, per

letize, shrink wrap, etc. automated system

PULVERIZERS, Mikro #4MP pulverizers, 125 if

PUMPS. Abie #H18–57-45 triplex pump, b



PNEUMATIC TRANSFER

SELECT used machinery

LARGE BIRDS

(12) 40" x 60" Bird decanter, 316 S/St, 15/3 deg. contour, 5" pitch, single lead conveyors w/Stellite hard surfacing, 80:1 gearbox, 100 HP V-belt main motor drive. New late 60's. Excellent condition. Limited Use. Immediately Available from

(2) 32" x 50" Bird decanter, 316 S/ST, 15/3 deg. contour, 5" pitch, single lead conveyors w/Stellite hard surfacing, 80:1 gearbox, 75 HP V-belt drive. Excellent condition. Limited Use. immediately Available from Stock.

KOMAREK GREAVES BRIQUETTER

(2) K/G briquetting presses. model 150MS-20.5-9.2, hydraulic roll force, variable speed feeder, discharge conveyor. complete system.

VACUUM DOUBLE DRUM **DRYERS**

(2) Blaw Knox designed double drum dryers, 18" x 48" & 36" x-120", chrome plated, each w/vacuum chambers & vacuum pump package. Excellent condi-tion. Ready to Ship.

WYSSMONT DRYER

Model N-22, 8' dla trays 22 high, with stainless steel contact parts. May be shipped in one plece. Steam heated.

ROTARY FILTERS Ametek 8' x 12' rotary w/belt

discharge, 316 stainless, new 1974 - Excellent condition. -Ametek 5" x 81/2" rotary w/beit discharge, 316 stainless. New 1974 - Excellent condition.

STAINLESS DRYER

oulsville stainless steel steam tube dryer, 8' dia x 40', stainless steel clad shelf w/stainless steel steam tubes.

Also Available:

Roto-Louvre mdl 900-32, 9' dia x 32' long, steam heated, 30 HP motor, all fans & Flex-Clean dust

CRYSTALLIZER Titanium contact parts, 8000 ibs

p/hr capacity. New 1976. Complete and still installed.

RAYMOND ROLLER MILLS

(3) Raymond high side roller mills, model 5057, double whizzer separator, fan; feeder, cyclone, duct Work & bucket elevator.

LARGE SHARPLES SUPER DECANTERS

(2) Model P8100 Sharples Super Decanter, 316 S/ST, carbide tiles, 250 HP main drive, 126:1 gearbox w/backdrive. New 1979. Complete. Excellent Con-

FLUID BED DRYER

Jeffrey fluid bed dryer, 5' x 20', 304 sanitary construction, complete installation including fans, dust collector, S/ST scrubber &

EXCELLENT CONDITION

INDUSTRIAL FILTERS

(2) Industrial Filter Systems, 600 & 200 sq. ft. each, dry cake discharge, epoxy lined steel tank w/316 S/ST filter leaves, completely automated w/com-puter controlled actuators. Like New Condition.

RESIN REACTOR

(1) 8500 gallon 316 S/Tt reactor, 30 PSI/full vacuum internal 15 PSI jacket, 45 PSI 316 S/ST colls, 10/15 HP 2 speed turbine agitator, S/ST overhead condenser. New 1977. Still installed. Excellent condition.

STRONG SCOTT SOLIDAIRE DRYERS

Model SJS-24-16, 24" dia x 16' long, 304 stainless, dimple jacket. 50 HP vari drive. Model SJS-20X16, 20" dia x 16"

long, 316 stainless steel, jacket-Model SJ\$8X52, 8" dia x 52" long, stainless, jacketed, pilot

JUST PURCHASED

Link Belt Roto-Louvre Dryer10'3' x 36' long, mdl #1003-36, complete system incl 50 HP drive, firebox w/20,000,000 BTU gas burner, all fans, duct work & controls, multi-cyclone collector & Siy 30,000 CFM bag-house. Excellent Condition -Still installed.We will load - Call for FOB Pricing

AMETEK ROTARY PRECOAT FILTERS

(1) 2' x 3', T304 sanitary stainless, complete station w/vacuum receiver, pump, mix tank & Nash vacuum pump. Rebuilt. (3) 10' x 16', 316 stainless steel, 100 HP Roots vacuum pumps, receivers, interconnecting piping, etc. Rebuilt.

(1) 3' x 3', string discharge, 316 stainless, incl S/ST agitated Sihi wari speed mtr, vari speed dry on drum, 316 stainless Shi vacuum pump. Excellent condition.

MACHINERY and EQUIPMENT CORP.

P.O. Box 7632-O San Francisco, CA 94120 Call Toll Free 800 227-4544 In California Call 800-792-2975 OR 415:467-3400 Telex 340-21

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CALL THE M-TEAM FOR ALL OF YOUR EQUIPMENT NEEDS! CALL FOR OUR NEW SUMMER CATALOG!

BLENDERS & MIXERS

READERS & MIXERS

-Readco Signe Stade Mixer 10 get. 59 Dual Level (Like New)

-Readco 5 get. S5 jktd. vac. mixer 6 HP

-Rose 10 get. Planetary Mixer S8

-Baker Perkins 300 get. Sigme Blade jktd. vac. mixer

-Reedco 3 get. 85 Sigme mixer, jktd.

-Patternen Kelly 1500 cu. ft. C5 blender 75 HP

-Paul O. Abbe 90 cu.ft. S8/sanit. jktd. vac. blender 50 HP

-Naurta Mixer 70 cu.ft. S8 10 HP

-Devine 100 cu.ft. Dble Cone Blender, C/S -Davine 100 cu.ft. Dbie Cone Blender, C/S -J.H. Day 54 cu. ft. Ribbon Blender (2) -Baker Perkins 150 gal. C/S jktd vac. flusher

CENTRIFUGES -Bird Centrifuge CS 18"x28" Contour Bow

-Bird Centrifuge CS various sizes (8)
-Bird 36"x50" 34789 Contour Bowl
-Sharples 12" 85 Lab Model/Brighton Lab
-Sharples P-5000 decenter \$\$ 100 HP

DRYERS

-Preudier Conical vac. dryer GL 72 cu. ft. compil-D &W Rotary vac. dryer, 316 SS, 2'x 7' -Gemco S5 1 cu. ft. dble. cone vac. dryer -Patterson-Ketty 3 cu.ft. twin shell vac dryer SS -Stokes vac shell dryers 48.9 sq.ft. (7) -Plaudier 2.6 cu.ft. G/L dbl. cone vac. dryer -Standard Hersey 4'x 19 Stokes days -Flationer 2.5 Cu.It. Q/L dbl. cone vac. dryer
Standard Hersey 4'x30' Rotary dryer SS
-Bowen Spray Dryers 7'y' & 8' SS
-Aeromatic fluid bed S.S. dryer Model 1003T 20e
-Patterson-Kelley 5 cu.ft. SS Conical (Yac Dryer
Stokos 5'x30' Rotary Vac Dryer, Jktd, SS
-Gemco dbl. cone vac dryer 10 cu. ft. SS
-Reitz rotary vac. dryer SS 3'x5' (complete system)
-Patterson Kelley Twin Shall vac. dryer 75 cu. ft.

FILTERS

-Eimco 4x12 Bett Filter -Sparkler Filter Mdl #18-D-4 SS jkt./ 33D12, SS 8-8 -U.S. Autojet filter SS 50 sq. tt. -Ertel 12" SS filter press -Horcules Filter 500 sq. lt. 316 SS -Rorcuss rinewis) Filter SS, 12" wide x 17' long -Sperry 42" Phypro Filter Press 48 Chambers -Shriver 38"ALP 316-88, 41,48 Chambers (2) -Evirex SS Rotary litters 6 x 6

GRINDERS & MILLS

-Ross 3-roll mill 4/s x 10"
-Premier Colloid mill Mdl. KSIF 40HP 316SS
-Filzmin Mdl. No. D-6/DSAO/12 30HP SS
-Simpson Mueller 6"x5" size 2 VD mixer 20 HP
Sweep Support to 10 JAB y 20 JAS W 15 SS
-Greerco Colloid Mill, 3 HP

NEW ARRIVALS engined Solvent reclaiming still & evaporator each dimple juid 316 59/sanit Patterson Kelley Twin Shell 1 cu. ft. vac. processor 58
-Alpine Selve Model # A-32-100 LS
-Alpine Selve Model # A-32-100 LS
-Joffrey Fluid Bed Dryer
-300 gal. 85 Disperaton Tank (50)
-800 gal. 316 SS Reactor
-12,000 gal. Fibergiese Tank Like New (2)
-Fitzpatrick Fluid Bed Dryer SS Model # 75 Lab
-Reitz dialntegator 83 6 H.P. 865 R.P.M.
-Autociave 200 gal. SS 115/350

-Funda Filter 4' dia., 88, jktd. w/20 HP Drive -Aeromatic Fluid Bed Dryer Lab Model #ST-15 -Aeromatic Spray Dryer Lab -Colleid Mill 5 HP SS

-Gound Mill 5 MP 38
-2000 gal. Dimple jktd. SS/sanit. Tank
-150 gal. SS/sanit. reactor 150 pei
-Strong Scott Rotary Vac Dryer, SS, 3x12
-SS Kettles 400, 300, 200, 150 (23)
-Baker Perkins 100 gal. CS jktd. Sigma Blade Mixer
-500 gal. SS jktd. agit. reactor low pressure (2) -150 gal. Sigma Blade Mixer, CS, jktd. -Reltz Thermoscrew 6" x 10" -Artisan 1 aq. ft wiped film SS complete system

Lightnin mixers 12 HP w/shalts & props (20) NEW Rose 15 gal. SS jktd. mixtruder 7 ½ HP Mdi. AMK 15 Micro Atomizer SS 5KP XP Mdi. #5MA

Henschei high-intensity mixer Model FM 500 14 cu. ft. 85 jktd. w/sitercooler (complete system)

RIBBON BLENDER -Abbe 40 cu. ft. 55 clad ribbon blender Strong-Scott 200 cu.ft. C5 ribbon blender -J.H. Dey 40 cu.ft. Ribbon Blender, S/S (3)

PRESSURE LEAF FILTERS
-750 sq.ft. U.S. Autojet, Mdl # 750, 316 SS
-Pronto Filter SS 30" Din, 450 psi
-Industrial Filter 100 sq.ft. Type 122 ID 31 Model OMD

Industrial Filter 100 sq. ft. Typs 122 iD 31 Model OMD Enzinger feet filter SS 360 sq. ft.

FREACTOPS

-4000 gai.316 SS reactor w/pipe coil (4)
-Pileuder 2000 gai. jkid reactor 150 psi/75 pai
-Norwalk 3000 & 750 gai. SS reactor dimple jkid FV/50 2500 gai. SS reactor 90/50 pai SS reactor 90/50 pai 100 gai. Plaudier 200 gai. SS reactor 90/50 pai Unused -Plaudier 200 gai. Monel Clad reactor 55/70 pai Glescote 3000 gai. G/L Reactor, 90/700 pai 13,600 gai. 304 Ele Dim., Jktd, Reactor, 30/100 psi -13,600 gai. 304 Ele Dim., Jktd, Reactor, 30/100 psi -Plaudier 500 gai. G/L jktd, vac. reactor

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PHARMACEUTICAL/SPECIALTY CHEMICAL/INK LIQUIDATIONS

"SOME 1986 BARGAINS -- SAVE WITH CONFIDENCE"

1-2,000 gal. Pfaulder G/L Reactor-1985, UNUSED

1-1,000 ou. ft. S/S Db. Ribbon Miker-JKTD, 106 HP

3-180 sq. ft. Model 24-4 CARBONE POL-YBLOC COND

1-120 cu. ft. Munson Blender-5/S, Banitary

1-80 cu. ft. S/S Db. Ribbon Miker-JKTD, 106 HP

1-80 cu. ft. Munson Blender-5/S, Banitary

1-80 cu. ft. Syr Dyrer w/Dust Collector

1-100 gel P/L Q/L Reactor - 26/7 pst, 1975

-- 1-100 gel P/L Q/L Reactor - 26/7 pst, 1975

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-- 1-100 gel P/L Q/L Reactor - 26/7 pst, 1975

-- 1-100 gel P/L Q/L Reactor - 26/7 pst, 1-14" Strong-Scott "Turbulizor" S/S, JKTD 30-2,000 gal. Plaudier G/L Resctors-566,300,200,100,150,20,1 gal. 3-6" Bowen Spray Dryers - 7 Fr (2) Complete 1-30" Bowen Tower Sp. Dryer wyDust Collector 1-100 gal Pf. G/L Resctor - 25/78 psl, 1975 -1-100 gal Pf. G/L Resector - 26/76 pal, 1975 MISC. SPECIALS -- STOCK

1-80 cu. ft. Sprout Weldron S/8 Ribbon Stender
2-Stokes Mod. 412-Hil Vac. Pump w/Bocater
3-Filter Processe-Complete and Skaletons
8-Carbone "Paly Bloo" Condensers-318, 93.8, 50 sq. ft.
2-Wysamont S/S Turbo Dryers-L-18, B-32
Mikro Pulverizers-1W, 35H/2-DH(8), 3TH,3W ATH,6MA
30-16"x49" Three Roll Mills-13"x32", 9"x24", 5"x12"(3),4"x8"(12)
1-Breebender Lab Plasticorder - Camplete
1-36 Cu. Ft., J. H. Day 6/S Ribbon Blender -JKTD
1-20" Toffuest S/S Centrifuge
4-Stokes Mod. 43 Granulators & Tererado Mills-S/S

Tanks: 250-1600 Gal. storage & mixing, 8/8 & fiberglass 5000 Gal. 364 8/8 storage tank, variical, closed, dished hde. (2) Richmond 3000 Gal. 3/8 Reactors, 60/40 PSI, 50 HP 2-Spd. Richmond 3000 Gal. 3/8 Reactors, 50/40 PSI, 20 HP. (3) Pfaudier 30 Gal. 3/8 Reactors, 50/40 PSI, 20 HP. (3) Pfaudier 30 Gal. 3/8 Reactors, 50/50 PSI, 19 HP XP V/8. Heroules 500 Sq. Ft. "Rote-left Fifter, 318 8/8, 50 PSI. Jacobson 80/87-11 "Jinternel" Hammer 888, 100 HP. (2) Entoleter Type EUS! "Cantrinel", 48" Dis., 318 8/8, 150 HP. Simpson "Rotets" Inpute 851 Sitter, 318 8/8, shtgle deck. Fitzmil, 316 8/8, No. NKA8012, 20 HP. Holo-Files Schmy Dryer, 18" Dis., x 20" L., C/8, Jkt. trough. Chromatox 200 KW Hot QII Unit. (ALL XP) Sterling 12 KW Hot QII Unit. (ALL XP)

ALLMARK EQUIPMENT CO., INC. (201) 628-1100

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NEW LIQUIDATION BAUXITE PLANT ... ARKANSAS LOCATION NEW EQUIPMENT

4 × 40' Bartlett-Snow Rotary Kiln
3' × 20' Bartlett-Snow Rotary Kiln
3' × 20' Bartlett-Snow Rotary Dryer
M-400 (16') Blird Pusher Centrifuge, 316 S/S (2)
18' Bird Horizontal Screen Bowl Centrifuge, 316 S/S
12'' × 15' Jeffrey Fuld Bed Dryer, 3/S
60'' Wide Proctor & Schwartz Belt Dryer
Markey Cooling Trees Mariey Cooling Tower Multi-Stage Evaporator System

USED EQUIPMENT

9:6" x 250" Traylor Rotary Kāns (8)
8:3" x 43" Traylor Rotary Coolers (6)
6: x 40" Alte-Chairners Hotary Coolers (6)
8' x 16" Traylor Ball Mills, 450 H.P. (4)
Belt Conveyor-up to 54" wide, up to 500" long
10" x 24" Altis-Chairners Jaw Crusher
Size 322 Altis-Chairners Hydro-Cone Crusher
250 TPH Penvisylvania Hammermilis (4)
9: x 30" Chatanooga Paddie Mixer (2)
8 x 12" Chatanooga Paddie Mixer (2)
Misd., Pumps, Compressors, Screens, Tanks, Dust

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Chromator 20 KW Hot Oil Unit (ALL XP)
Sterling 12 KW Hot Oil Unit.
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August 11, 1986

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Pfizer Drugs In New Forms

Pfizer, Inc. says it will market two of its leading pharmaceutical products in new forms that will provide greater therapeutic utility for physicians, patients and hospital personnel.

The company said it has received Food & Drug Administration clearance to market a new 20 milligram dosage form for "Procardia" (nifedipine) and a new delivery system "Cefobid" (cefoperazone sodium), a third generation injectable cephalosporin antibi-

The new 20-milligram capsule of "Procardia" offers a prescribing option for physicians, Pfizer says. In addition, "Cefobid" will soon be available in a drug delivery system called "Mini-Bag" plastic container through a joint venture with Baxter Tra-

Pfizer says the new "Procardia" capsule provides the opportunity for enhanced paient compliance through superior dosage convenience. Angina patients who are taking "Procardia" at higher doses now have the option of switching to the new 20 milligram "Procardia" capsule.

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Fertilizer Use Falls By 10 Pct., Industry Says

from producers was 10 percent less for the 12 months ending June 1986 than in the previous period, according to the Fertilizer Institute. Disappearance for the month of June was 19 percent less.

Disappearance was down in all product groups, in both the monthly and yearly comparisons. In the year-to-date comparison, nitrogen product disappearance declined 11 percent, processed phosphates declined 2 percent and potash products declined 11 percent, industry association says. Phosphate rock shipments were 15 percent less than in

Exports of all products declined 33 percent in 1986 relative to 1985, including a decline of 48 percent in diammonlum phosphate and 48 percent in solid urea. Total imports were equal to last year, with increased urea imports being largely offset by lower imports of potash products, according to TFI.

Production of fertilizers was 16 percent less for the July 1985-June 1986 period, and 22 percent less in the monthly comparison. In the annual comparison, production in all product groups was less than in the previous year. In June, however, US production of potash grew 30 percent overall relative to June 1985.

Total ending inventory increased 19 percent in June 1986 compared with last year. Inventories for all product groups, except potash and mixtures, increased.

Domestic disappearance of nitrogen products was 17 percent lower in June, and 11 percent lower in the July-June comparison. Shipments of solid urea were 25 percent greater for the year, while disappearance of other products declined.

Nitrogen production dropped 24 percent in June and 14 percent in the July-June period. All products deleined in the annual comparison, except ammonium sulfate, which was even with last year.

Urea imports have increased 56 percewnt over last year. Imports of anhydrous ammonia declined 5 percent and ammonium sulfate declined 8 percent in the yearly comparison. Anhydrous ammonia exports declined 29 percent in the July-June com-

Ending inventory of nitrogen products in-creased 34 percent in June 1986 relative to June 1985. All product inventories rose except urea.

Disappearance of processed phosphates was 64 percent less in June 1986 compared with June 1985. In the July-June comparison, disappearance was 2 percent less For the year, disappearance of diammonium phosphate, monoammonium phosphate and superphosphoric acid increased or was even with the prior year; while disappearance of other phosphates declined, TFI says.

Production of phosphates was less, by 21 percent in the annual comparison and 23 per-

Domestic disappearance of fertilizers cent in the monthly. Production in June 198 der lined in all products except monoamme

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mum plus plate, which increased 45 percent Exports of phosphates, including phosphate took, were less in the July 1985-June 1986 period, except for monoammonlum plus plastes Total exports of MAP improved I percent to 485,000 tons for the year. Phos. f please rock imports totaled 349,000 tons for the July 1985 June 1986 period.

Total phosphate inventory increased 5 per cent at the end of June, compared with Jug 1985. The inventory of phosphate rock way percent higher, concentrated superplaphate was 112 percent higher, and MAP laren tory was 28 percent higher, Diammonlum! phosphate declined 12 percent from June

Disappearance of potash products was in percent lower in the July 1985-June 1981: comparison, and 26 percent lower in Just Standard muriate disappearance incressi in both comparisons, 5 percent in the annuand 132 percent in the monthly.

Production of potash in the U.S. declined percent for the 12-month period, relative 1985, but increased 30 percent in Jun 19 Imports of potassium muriate werellige cent less for the year, while exports the same

Ending inventories declined 6 page the U.S. and 17 percent in the Viz. Canada total, at the end of June 198325 ard murate inventory increased 30 kg. relative to last year, TFI says.

Disappearance of NPK mixtures value percent less for the monthly comparison. 21 percent less for the year, Productions down 22 percent in the July-June periodal ending inventory declined 5 percentals

GE Gets Assets Of J&J Business

Johnson & Johnson and General Elect tric Company have completed a transtion under which GE has acquired tain assets of Johnson & Johnson diagnostic imaging services business

As part of the transaction, GE will for tinue to offer service for diagnostic hap products made by Technicare and Johnsol Johnson Ultrasound and will assume smil contracts and certain customer service port obligations

"When Johnson & Johnson decided lot the medical diagnostic imaging bushes, to created an opportunity for GE to serve, to son & Johnson customers," GE says. "Wes pleased to be able to continue to provide excellent service these customers have to expect."

Approximately 800 Johnson nployees worldwide — primatiyas d support employees — will home (i employees as part of this acquisition

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Leghorn, 6/25.

2 con (89286 lbs) (Almudena) Leghorn, 6/25.

SODIUM TRIPOLYPHOSPHATE GRANULAR Cosmos Shog 432 pkg (44874 lbs) (Zim New York) Halfe, 6/28

652 plt (89375 lbs) (Zim New York) Halfa, 6/28. ORBIC ACID Order 390 dms (42320 lbs) (Stefan SORBIC ACID Order Jap gma (42320 lbs) (316181)
Starzynski) Bremerhaven, 6/23.
STANNOUS SULPHATE SOLUTION Goldshmidt Chemical 70 dms (38426 lbs) (Ever Laurel) Antwerp, 6/22.
STREPTOMYCINE BASE Rhone Poulenc 50 ctn (1788)

bs) (Atlantic Service) LeHavra, 6/24.
STYRENE OXIDE Rhone Poulenc 72 dms (34476 lbs) (Nedfloyd Rouen) Marseille, 6/24
SUCCINIC ANHYDRIDE Elco Shgg 144 dms (42222 lbs) (States States and 6/24) (Stefan Starzynski) Bremeriavon, 6/23. SULFACETAMID Richard Boas 19 dms (2450 lbs) (Stuttgart Express) Hamburg, 6/24 SULFACETAMIDE SODIUM Generichem 220 dms (25878

lbs) (Starfield) Rotterdam, 6/26 SULFAMIC ACID Atlas Intermodel Transport 2240 bgs (12040 lbs) (Ming Glory) Keelung, 6/23 SULPHATHIAZOLE Order 156 dms (19947 lbs) (Heide)

Hamburg, 6/24. SULPHONIC ACID Lubrizol 3 Ink (139561 ibs) (Stuttgart Express) Greenock, 6/24 SULPHUR HEXAFLUORIDE Montedison 329 cyl (77912

bs) (Almudena) Genos, 6/25.
TANNIC ACID Order 50 dms (6008 lbs) (Starfield) Anlworp, 6/26
THIOUREA DIOXIDE Degussa 120 dms (27804 lbs)
(Stuttgart Express) Hamburg, 6/24
TITANIUMD/OXIDE DN Lukens 5 con (200619 lbs) (Almu-

dena) Cadiz, 6/25. Oena) Caniz, 0/25.

Durr Marketing 1600 bgs (83000 ibs) (Sea Land Developer) Rolterdam, 6/26.

Leschaco 3040 bgs (168203 ibs) (Sluttgart Express)

Antwerp, 6/24.

TITANIUM DIOXIDE Morimura Brothers 172 dms (21235 lbs) (king Glory) Yokohama, 6/23.

N.L. Ind 800 bgs (333688 lbs) (Stefan Starzynski) Rotter-

2700 bgs (139882 lbs) (Stuttgarl Express) Antwerp. 6/24. Huxley Raw Material 780 bgs (39590 lbs) (Stefan Siarzynski) Bremerhaven, 6/23. Mercury Paint 720 bgs (39174 lbs) (Stefan Starzynski)

Bremerhaven, 8/23. Mohawk Papor Mills 340 bgs (33340 lbs) (Stefan Starzynski) Bremerhaven, 6/23. Ind & Chemical 4800 pkg (250266 lbs) (Atlantic Saga) rdam, 6/10.

N L Ind 3200 bgs (163952 lbs) (Heide) Hamburg, 6/24, 6400 bgs (331575 lbs) (Sea Land Developer) Rotter-

dam, 6/26.
WIC Ocean Freight 900 bgs (371431 lbs) (Ever Laurel)
Hamburg, 6/22.
Blue Bell Chemical 800 bgs (41500 lbs) (Sea Land Developer) Rotterdam, 6/26.
O N Lukena 1600 bgs (83000 lbs) (Sea Land Developer)
Rotterdam, 6/26.
Superior Meterials 1600 bgs (83000 lbs) (Sea Land
Developer) Rotterdam, 6/26.

Davidoper; riciteraum, 9/20.
TOBIAS ACID POWDER & SAMPLE Montedison 161 pkg
(46341 lbs) (Nedloyd Rouen) Leghom, 8/24.
TOLBUTAMIDE USP 20 DRUGS Harbottle 67 pkg (5110 (ba) (American Kentucky) Singapore, 6/24. TOLUYLENE DISOCYANATE DESMODUR T Leschaco trik (39859 lbs) (Atlantic Service) Bremerhaven, 6

RIALLYL ISOCYANURATE BHT & TBH Corred & O Nei 60 dma (29498 lbs) (Hanjin Yokohama) Yokoh TRICHLOROACETIC ACID Roussel-80 dms (9436 fbs)

(Stutigari Express) Hamburg, 8/24. TRIMETHYL, CYOLOHEXENYL, METHYL, BU Gurto, & Funk 79 pkg (34484 lbs) (Alfantio Sage) LaHavre, 6/10. TRIMETHYLCHLOROSILANE Rhone Pouleno 10 dms (4343 lbs) (Nedlloyd Rouen) Martellle, 6/24. TRIMETHYLOLPROPANE Leschaco 1 tmk (41448 lbs) 792 bgs (89727 lbs) (Ever Laurel) Antwerp, 6/22

Atlantic Concert) Liverpool, 6/24, UREA FORMALDEHYDE MOULDING POWDE Order 620 bgs (46194 lbs) (Zim New York) Halfs, 6/28. VANILLA EXTRACT Charls Imports 100 cs (4850 lbs)

(Saint Louis) Haine, 6/27.

VANILLA HALVA, Adamba Imports 100 ctn (4365 lbs)
(Stefan Starzynski) Bremrehaven, 8/23.

VANILLIN Rinone Pouteno 360 cms (42778 lbs) (Nedloyd VANILLIN Hinne Folkend 350 cms (42778 ios) (Nedloyd Houen) Marsello, 6/24. VINYL PYRROLIDONE NON HAZARDOUS Order 1 Ink (42417 ibs) (Helde) Hamburg, 6/24. WOOL GREASE Hummel Lanolin 76 dms (36345 ibs)

WOOL GREASE Hummel Lanolin 76 dms (36345 lbs)
(Helde) Rotlerdiam, 6/24.

ZINC CHROMATE BDP Intl 700 bgs (38617 lbs) (Stefan Starzynski) Rotlerdem, 6/23.

ZINC SULPHATE HEPTAHYDRATE United Mineral & Chemical 100 bgs (11823 lbs) (Helde) Antwerp, 6/24.

ZINC SULPHATE, MONOHYDRATE United Mineral & Chemical 950 bgs (67937 lbs) (Helde) Antwerp, 6/24.

CHEMICAL MARKETING REPORTER

CHEMICAL PROFILE PLATFORM

FUMARIC ACID

AUGUST 11, 1986

SUPPLY	
PRODUCER	CAPACITY*
Denka, Duluth, Minn	6
Ptizer, Terre Haute, Ind	<u> 30</u>
Total	

'Millions of pounds annually. Denka acquired its Duluth fumaric acid facility, along with malic acid capacity at the site, from Alberta Gas Chemicals, inc. in July of last year. Kalama Chemical shut its 10-million-pound-per-year plant in Garfield N.J. last quarter. The plant is ready for startup on short notice if market conditions warrant. Monsanto's 30-million-pound-per-year plant in St. Louis, Mo. remains idle. Monsanto and Pfizer share the output of Pfizer's plant in Terre Haute. US Diversified Group, an operating unit of the newly-named USX Corporation, will not restart fumaric acid production at its 10-million-pound-per-year unit in Neville Island, Pa. Fumaric acid production was halted there in February 1983. Profile last published 7/4/83; this

DEMAND

1985: 30 million pounds; 1986: 30 million pounds; 1990: 33.2 million pounds.

GROWTH

Historical (1976-1985): 0 percent per year; future: 2 percent per year through

Historical (1952-1986): High, 67c. per pound, tech., c.l., t.l., f.o.b. works, frt. equald.; low, 17c. per pound, dlvd. Current: 621/2c. per pound, tech. same basis. 7514c. per pound, food-grade, same basis.

Paper size resins, 48 percent; food acidulant, 20 percent; unsaturated polyester resins, 16 percent; alkyds, 5 percent; exports, 5 percent; miscellaneous, 6 percent.

STRENGTH

In the past three years, idled facilities and capacity shutdowns have turned a severe oversupply into a well balanced supply/demand situation. Furnaric acid is less costly than citric acid, its primary competitor in food uses.

Maleic anhydride, used in unsaturated polyester resins, has stunted fumaric acid's growth in that application. Fumaric acid is less soluble than citric acid and therefore less desirable in some food uses.

OUTLOOK

Fumaric acid is a mature product. At best, growth will match GNP over the

'Acceptable' Risk

The following remarks are excerpted from a speech by Milton Russell, assistant EPA administrator for policy planning and evaluation, to the Texas Water Pollution Control

Once we found pollution with our eyes and noses. Now we use GCMSs to measure it in parts-per-million, parts-per-billion, even parts-per-quadrillion. But this information is useful only if we can figure out what it means for human health and the environment. We are back to the question, "What is the risk?"

We need to ask what "parts-per-trillion" of a given toxin means. To find a toxin is not to conclude we must remove it. In a world of limited resources, that conclusion would lead to chasing ever smaller quantities of a pollutant at exponentially rising expenditures of labor, dollars and scientific and engineering

There are more toxins-natural and manmade—in this life than any of us can ever hope to eliminate. A brute fact should be engraved on our consciousness: given finite resources, when we choose to reduce one toxin, we also choose to tolerate another. And, even where we concentrate on one toxin—whether it be PCB or dioxin or whatever—we cannot expect to achieve perfection. This leads me to believe we need a stopping point, a point at which we will agree that we have cleaned up far enough in a given case, and it is time to turn to another.

What is the basis for stopping? In my judgment it has little to do with the specific toxin or its concentration and much to do with the risk it poses to people and the environment. If our goal is not purity, or even neatness for its own sake, we must identify risk and reduce it to the point at which it becomes acceptable to our society—thus, the concept of "acceptable risk.'

The difficulty of this question for a public policy maker is that it is not scientific, technical or administrative in nature. The question is basically sociological, and it pertains at two levels: generally, in the case of national policy, and, specifically, in the case of local situations

In the first case, we must ask ourselves what kind of society we really want, what values we expect our national policies to reflect. The American people want a safe and healthy environment, but they want other things, too. They want a strong national defense, first-rate transportation, better and cheaper medical care, good homes, laborsaving appliances, a varied diet and entertainment. Those who uphold the environment as a primary value compete daily with the advocates of these other worthy objectives. Our job at EPA is to effectuate as best we can, under the laws, the decisions of the American people as to these painful trade-

Two years ago. Tacoma, Washington, faced a threat to a smelter that played an important role in the community economy. The trouble was arsenic emissions that we at EPA found to be a source of risk to the public health. Our administrator at that time, Bill Ruckelshaus, believed, as I do, that finding and quantifying risk is one thing. What you do about it is another. Ruckelshaus went to Tacoma and talked with the people there. Here were the clear facts about the danger of cancer. Here were the clear facts showing that reducing that risk as far as possible would be so costly that the plant management would have to consider shutting down, Was it better to accept clevated rates of disease in the community? Or to accept lost iobs, a weakened economy and the individual distress that would yield? There was no lady—just two tigers. Tacoma answered, "some of both." They wanted us to reduce the health risk as far as possible, but not so far as to endanger the plant's survival. As it happens, the plant closed down for other reasons.

But the case is instructive. Risk is acceptable to different people under different circumstances. But neither government nor the people affected can make a reasonable decision unless the risks and inplications of reducing them are known

The Whole Message

The following remarks are exerpted from a speech by Jackson Browning, vice-pres dent for health, safety and environmental affairs for Union Carbide Corporation, to the Environmental Conference in Cleveland,

Chemical production today must be done in a way that responds to a whole range of pressures and demands—for quality, for parity, for cost, for environmental regulations, for concern for employees, concern for the environment, and on and on. It a chemical company doesn't respond adequately to all of these requirements—in other words, if it doesn't get the whole message—then the company is not going to be viable for long in today's world. .

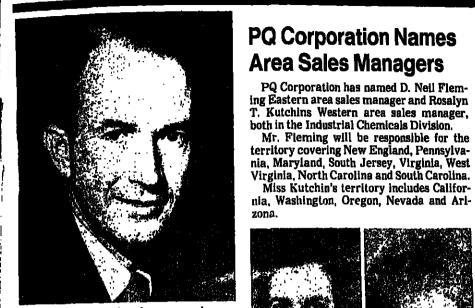
It seems to me that if our companies are to get the whole message, then we risk managers, safety people, or environmental experts-call us what you will-must be partol

But, we've got to be able to contribute more than just a technical understanding of what must be done in the health, safety, and environmental area. We've got to be prepared to bring a certain kind of sensitivity to the process, a sensitivity to public fears and concerns, as well us to the regulatory " anirements

The fellow living across the street for plants really has only one interest simply wants to feel secure. He wast sleep soundly at night knowing that we'teld the lids screwed on tightly.

JOBS & PEOPLE {{{ }}} JOBS & PEOPLE

PQ Corporation has named D. Neil Flem-



Date H. Spiess, who has been named group vice-president of sales and marketing services for Enron Chemical Company. He was previously group vice-president of converted prod-

DAVID K. SEIFERT has joined M&T Chemicals Inc. as manager of operations analysis... WALLACE N. COX has been appointed a technical representative in the chemicals laboratory at Eastman Chemical Products Inc... JERRY A. WINDISCH has been named account supervisor for organic resin sales in the technical marketing group of Hercules

MICHAEL J. SCHERER has been appointed technical director of polysulfide applications and technical service for Morton Chemical Division... PAUL C. KENDALL has been named technical sales representative for BioGuard's Chemical Specialties Division... J. RICHARD WEBB has been appointed president of Plaudler Company, a unit of

TERI S. LEBEAU has been named business manager for organic intermediates in the chemicals and metals product department at Dow Chemical USA... DR. BERNARD D.



BAUMAN has been appointed manager of

technology and commercial development in

Air Products & Chemicals Inc.'s surface

GERALD P. FRANCO has been named mar-

keting services representative for Pennwalt

Corporation's Lucidol Division... LINDY

GULBRANDSEN has been appointed sales

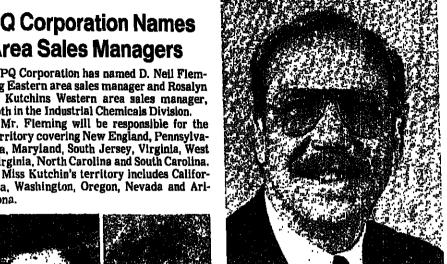
representative (or the New York metropoli-

tan area for John H. Calo Company Inc...

reated products department

STEVEN B. GREENFIELD has been named group product manager for Hoechst-Roussel Agri-Vet Company

FRANK J. POPOLA has joined Norton-Performance Plastics as a senior process engineer... HELMUT K. MAIER has been named manager of technology transfer in the International Division of Economics Laboratory



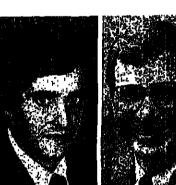
dent of the chemical business center at USI Chemicals, a division of National Distillers &

Inc... VERNELL P. LUDWIG has been appointed executive vice-president of Algonquin Energy Inc., a subsidiary of Texas

PETER R. GRIBBLE has been named associate director of industrial coatings at Glidden Coatings & Resins and CARLOS E. OR-TIZ has been appointed technical manager for powder... LEONARD J. BOEHM has been named vice-president of marketing and sales at CasChem Inc.

NICHOLAS A. VITTORE has been named director of quality excellence for Desoto Inc.'s Chemical Products, Chemical Specialties and Royal divisions and LESTER A. HENNING has been appointed director of quality excellence for the company's Chemical Coatings Division... JOHN MURPHY has been named sales specialist for the textile care business of Diamond Shamrock Chemi-

STEVEN S. COWELL, ALBERT P. HAL-LUIN, KATHERINE A. RUSSEL and R.



SCM Pigments Picks Two Vice-Presidents SCM Pigments has appointed J. Corson

Smith vice-president of sales and David L. Vercollone vice-president of marketing and Mr. Smith will be responsible for imple-

mentation, direction and execution of sales strategies. He was previously vice-president of marketing for titanium dioxide and titanium tetrachloride.

Mr. Vercollone will be responsible for the planning, direction and execution of marketing and sales strategies and programs for all US products of SCM Pigments.



JEFFERSON WORKS have been named vice-presidents at Cetus Corporation... CHARLES J. HOAR has been named senior area manager for the solvent and chemical business unit of Unocal Chemicals Division's petrochemical group and BRUCE R. VAN BEBBER has been named sales representa-



tive for the division.

JOHN GUIDICE, RICHARD CLAWSON and PORTER BOLTZ have been named account managers for National Starch & Chemical Corporation's Adhesives Division, and ARTHUR EPP, WILLIAM J. KLUCKER and KEITH MILLER have been named account supervisors for the division.

MEETINGS CALENDAR



AUGUST 11, 1986

THIS WEEK

AMERICAN CHEMICAL SOCIETY, chemical marketing and economics division, seminar on R&D manage ment, Scanlicon-Princeton executive conference center and hotel, Princeton, N.J., August 13-15.

THIS MONTH

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS Summer national meeting, Sheraton Boston Hotel, Boston, Mess., August 24-27.

LATER ON

AMERICAN CHEMICAL SOCIETY, 192nd annual meeting. Anahaim Convention Center, Anahaim, Calif.,

AMERICAN MICROCHEMICAL SOCIETY, eastern analytical symposium, jointly with American Chemical So-clety and Society for Applied Spectroscopy, New York AMERICAN PETROLEUM INSTITUTE, annual meeting, San Francisco, Calif., November 9-11

100th International meeting and exhibition, The Reg-Istry Hotel, Scottadale, Ariz., September 15-18.
ASSOCIATION OF THE NON-WOVEN FABRICS INDUS-TRY, eighth international conference and exhibition Georgia World Congress Center, Atlanta, Ga., Octo-

CANADIAN CHEMICAL PRODUCERS ASSOCIATION, International symposium on transportation emergency response, Vancouver, B.C., Canada, September 14.

CHEMICAL GROUP, NATIONAL ASSOCIATION OF PURCHASING MANAGEMENT, Fall Conference Marrioti Pavillon Hotel, St. Louis, Mo., October 21-23.
CHEMICAL MARKETING RESEARCH ASSOCIATION, world chamical congress, jointly with the chemical marketing and economics division of the American Chemical Society, "The Chemical Industry: Where in the World is it Going?", Newporter Resort Hotel, Newport Beach, Calif., September 7-10.

port Seach, Calif., September 7-10. CHEMICAL SPECIALTIES MANUFACTURERS ASSOCI-ATION, seminar on serosol technology, Ramada Hotel O'Hara, Rosemont, III., October 27-29; 73rd annual neeting, Marriott's Harbor Beach Resort, Fort Lauderdale, Fia., December 7-11.

ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS. CHLORINE INSTITUTE, Fall meeting. The Homestead Hot Springs, Va., September 21-25.
COMMERCIAL DEVELOPMENT ASSOCIATION, Impact

of mergers and acquisitions on the future of technolriven corporations, Hershey Hotel, Hershey, Pa.

CONFERENCE BOARD, business outlook conference, Waldorf-Astoria Hotel, New York, September 24-25. COUNCIL FOR CHEMICAL RESEARCH, annual meeting. western University, Evanston, II., Septembe

COUNCIL FOR RESPONSIBLE NUTRITION, annual meeting, "Health Messages: New Directions and New

Opportunities," J.W. Marriott Hotel, Washington, D.C., September 7-10. EUROPEAN PETROCHEMICAL ASSOCIATION, Annual meeting, Monte Carlo, Monaco, September 28-Octo-ber 1; distribution meeting, October 19-October 22.

FERTILIZER INSTITUTE, world fertilizer conference "Global Trading Patterns," Hyatt Regency Hotel, San Francisco, Calif., Septembar 14-18, FERTILIZER ROUND TABLE, Sheraton Inner Harbor Ho-

el, Baltimore, Md., November 17-19. FIRE RETARDANT CHEMICALS ASSOCIATION, Fall conference on proper processing and selection of

flame retardants, Klawah Island, S.C., October 19-2 FRAGRANCE MATERIALS ASSOCIATION OF UNITED STATES, 10th international congress of st sential oils, fragrances and flavors, Omni Shorthan

K-'86, 10th International trade fair for plastics at Dusseldorf, West Germany, November 8-13. LATIN AMERICAN PETROCHEMICAL ASSOCIATION sixth annual meeting, Rio Palace Holei, Rio de Janen, Brazil, November 23-25.

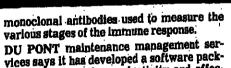
NATIONAL PAINT & COATINGS ASSOCIATION, 1981 ennual meeting, Atlanta Hilton Hotel, Allante, November 3-5.

November 3-5.

PULP CHEMICALS ASSOCIATION, 13th international pulp CHEMICALS ASSOCIATION, 13th international reverse and i

ASSOCIATION, OSHA compliance trade let sid pa Iner, Intercontinental Hotel, New Orleans,

BUSINESS BRIEFS



maintenance costs, according to Du Pont. ERSKINE-JOHNS Company, Los Angeles, has been appointed sales representative and distributor for Boots Technochemic Compimide BMI resins in the Western US. Ersk-

cal and pharmaceutical firro.

FERMENTA PLANT PROTECTION Company is adding butoxone, propanil and dinitro to its product line. These post-emergent herbicides will be incorporated into Fermenta's agriculture business and will increase the firm's presence in the agrichemical markets. Fermenta says. Fermenta is based in inesville, Ohio.

KEMIRA, INC. has introduced its "Uniti" line of seven chemical compounds for indusine-Johns is a distributor and representative of composite materials and equipment to industry and aerospace. Boots Technochemie industry and aerospace. Boots Technochemie

CHEMICAL MARKETING REPORTER

BUSINESS BRIEFS

'AVID', a miticide/insecticide marketed by MSD Agvet, has been granted Federal regisand leafminers on flower crops, foliage plants and other non-woody ornamental plants. Spider mites and leaiminers pose a serious threat to the nation's floral and folage crops, which represent a wholesale value of over \$1 billion annually.

BOEHRINGER BIOCHEMICALS, Indianapolis, has been appointed the sole US distrib-tior of T Cell Sciences Inc.'s monocional anibody-based research products. These products include the "Celifree" interleukin-2 receptor test kit, which measures soluble, released interleukin-2 receptors in serum and other body fluids, and the "Act-T-Set"

monoclonal antibodies used to measure the is a subsidiary of Boots PLC, the UK chemi: LONZA INC. has published a new brochure, various stages of the immune response.

age to increase the productivity and effeciveness of plant maintenance programs. The software performs such functions as tracking equipment history and costs, planning and scheduling work, controlling spare parts inventory and work orders, scheduling preventative maintenance and accumulating called "Pyrimidines, Pteridines & Purines," which focuses on synthetic routes to the manutacture of compounds. The 96-page brochure describes the synthesis and biosynthesis of the pyrimidine, pteridiene and purine rings, and their industrial applications in agrichemicals and pharmaceuticals.

> STOLT-NIELSEN INC. has completed the move of its ship management department from Greenwich, Conn. to Panama City, Fla. Stolt-Nielsen says it made the move in order to secure long-term overhead cost savings, to stay competitive with other ship managers operating internationally and to keep fleet management of Stolt Tankers' owned tonnage "in house."

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